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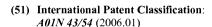
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(54) Title: COMPOUNDS AND METHODS

$$R^{1} \stackrel{R^{2}}{\underset{O}{\longrightarrow}} Q^{1} \stackrel{R^{3}}{\underset{N}{\longrightarrow}} R^{4}$$

(57) Abstract: Disclosed are compounds having the formula (I): wherein R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, and R<sup>6</sup> are as defined herein, and methods of making and using the same.

#### COMPOUNDS AND METHODS

### FIELD OF THE INVENTION

The present invention relates to compounds that inhibit TNNI3K and methods of making and using the same. Specifically, the present invention relates to 4,6-diaminopyrimidines as TNNI3K inhibitors.

### BACKGROUND OF THE INVENTION

Cardiac troponin I-interacting kinase (TNNI3K), also known as CARK (for cardiac ankyrin repeat kinase), is a protein kinase that exhibits highly selective expression for cardiac tissues and has been shown to interact with components of the sarcomere, including troponin I (Zhao, Y. et al., *J. Mol. Med.*, **2003**, *81*, 297-304; Feng, Y. et al., *Gen. Physiol. Biophys.*, **2007**, *26*, 104-109; Wang, H. et al., *J. Cell. Mol. Med.*, **2008**, *12*, 304-315). Although substrates for TNNI3K have not been identified to date, recent reports suggest that this protein does play a role in the development of pressure-induced cardiomyocyte hypertrophy and contractile dysfunction (Wheeler, F. C. et al., *Mamm. Genome*, **2005**, *16*, 414-423; Wang, X. et al. "TNNI3K, a cardiac-specific kinase, promotes cardiac hypertrophy in vivo", Poster presentation at the 2006 Scientific Sessions of the American Heart Association, Chicago, IL, Wheeler, F. C. et al., *PLos Genet*, **2009**, 5(9), e1000647; and Pu, W.T., *PLos Genet*, **2009**, 5(9), e1000643). Inhibition of the kinase activity of TNNI3K may disrupt these signaling pathways, and enable the mitigation and/or reversal of cardiac hypertrophy seen in patients with progressively worsening heart failure.

In response to mechanical, neurohormonal, and genetic stimuli, the heart will undergo hypertrophy, or muscle growth and remodeling, in order to maintain sufficient cardiac output to meet tissue oxygen demands. While these structural changes are initially seen as compensatory, sustained dysregulation of hypertrophic signaling can lead to heart failure, the pathophysiological state in which the heart can no longer adequately function as a pump (Mudd, J. O. and Kass, D. A., *Nature*, **2008**, *451*, 919-928). Prevention or reversal of pathological cardiac hypertrophy has the potential to delay or prevent the development of congestive heart failure (McKinsey, T. A. and Kass, D. A., *Nat. Rev. Drug Discov.*, **2007**, *6*, 617-635; Kaye, D. M. and Krum, H., *Nat. Rev. Drug Discov.*, **2007**, *6*, 127-139).

Heart failure is responsible for a reduced quality of life and premature death in a significant proportion of sufferers, and is characterized by impaired cardiac function either due to reduced pump function (systolic dysfunction) or reduced filling (diastolic

dysfunction). Congestive heart failure (CHF) is characterized by impaired left ventricular function, increased peripheral and pulmonary vascular resistance and reduced exercise tolerance and dyspnea. The prevalence of heart failure is anticipated to increase with ageing populations, prompting a need for new and improved methods of treating heart failure.

### SUMMARY OF THE INVENTION

The invention is directed to novel diaminopyrimidines. Specifically, the invention is directed to compounds according to Formula I:

$$R^{1} \stackrel{\stackrel{\longrightarrow}{N}}{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N} \stackrel{\longrightarrow}{N} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\longrightarrow}{N} \stackrel{\stackrel{\longrightarrow}{N}} \stackrel{\stackrel{\longrightarrow}{N}}$$

wherein:

 $R^1$  is  $(C_1-C_4)$ alkyl;

R<sup>2</sup> is hydrogen or halogen;

 $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl,  $(C_3-C_6)$ cycloalkyl, aryl, hydroxyl, hydroxy( $C_1-C_4$ )alkyl-,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkoxy( $(C_1-C_4)$ alkyl-,  $(C_1-C_4)$ haloalkoxy,  $(C_3-C_6)$ cycloalkyloxy,  $(C_1-C_4)$ alkylthio-, amino,  $(C_1-C_4)$ alkylamino, or  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino;

 $R^4$  is hydrogen, halogen,  $(C_1-C_8)$ alkyl,  $(C_1-C_8)$ haloalkyl,  $(C_3-C_8)$ cycloalkyl, hydroxyl, hydroxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ alkoxy,  $(C_1-C_4)$ alkoxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkylthio-,  $(C_1-C_8)$ haloalkylthio-,  $(C_1-C_8)$ haloalkylthio-,  $(C_1-C_4)$ alkyl, amino,  $-NHR^7$ , or  $-NR^7R^8$ ;

R<sup>5</sup> is hydrogen:

or R<sup>4</sup> and R<sup>5</sup> taken together with atoms through which they are connected form a 5 or 6 membered ring, optionally containing one or two additional heteroatoms selected from N, O and S, which ring may be unsubstituted or substituted with one to three substituents independently selected from (C<sub>1</sub>-C<sub>4</sub>)alkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl,

hydroxy( $C_1$ - $C_4$ )alkyl-, oxo, hydroxyl, ( $C_1$ - $C_4$ )alkoxy, ( $C_1$ - $C_4$ )haloalkoxy, and ( $C_1$ - $C_4$ )alkylthio-;

 $R^6$  is  $(C_1\text{-}C_8)$ alkyl,  $(C_2\text{-}C_8)$ alkenyl,  $(C_2\text{-}C_8)$ alkynyl,  $(C_3\text{-}C_8)$ cycloalkyl, aryl, or heteroaryl, wherein any aryl or heteroaryl group is optionally substituted one to three times, independently, by halogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_2\text{-}C_6)$ alkenyl,  $(C_2\text{-}C_6)$ alkynyl,  $(C_3\text{-}C_6)$ cycloalkyl,  $(C_1\text{-}C_4)$ haloalkyl, cyano,  $-\text{CO}(C_1\text{-}C_4)$ alkyl,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2\text{R}^7$ ,  $-\text{CONH}_2$ ,  $-\text{CONHR}^7$ ,  $-\text{CONR}^7\text{R}^8$ ,  $\text{HO}_2\text{C}(C_1\text{-}C_2)$ alkyl-,  $R^7\text{O}_2\text{C}(C_1\text{-}C_2)$ alkyl-,  $-\text{SR}^7$ ,  $-\text{SO}_2(C_1\text{-}C_4)$ alkyl,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{NHR}^7$ ,  $-\text{SO}_2\text{NR}^7\text{R}^8$ , nitro, amino,  $-\text{NHR}^7$ ,  $-\text{NR}^7\text{R}^8$ , amino(C1-C2)alkyl-,  $R^7\text{HN}(C_1\text{-}C_2)$ alkyl-,  $R^7\text{R}^8$ N(C1-C2)alkyl-,  $-\text{NHCO}(C_1\text{-}C_4)$ alkyl,  $-\text{NHSO}_2(C_1\text{-}C_4)$ alkyl, oxo, hydroxyl,  $-\text{OR}^7$ , hydroxy(C1-C2)alkyl-,  $R^7\text{O}(C_1\text{-}C_2)$ alkyl-, cyano(C1-C2)alkyl-, aryl, heteroaryl, or heteroaryl(C1-C2)alkyl-, wherein any said aryl or heteroaryl is optionally substituted one to three times, independently, by halogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_3\text{-}C_6)$ cycloalkyl,  $(C_1\text{-}C_4)$ haloalkyl, cyano,  $-\text{CO}(C_1\text{-}C_4)$ alkyl,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2\text{R}^7$ ,  $-\text{CONH}_2$ ,  $-\text{CONH}^7\text{R}^8$ ,  $-\text{SR}^7$ ,  $-\text{SO}_2(C_1\text{-}C_4)$ alkyl,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{NH}_7$ ,  $-\text{SO}_2\text{NR}^7\text{R}^8$ , nitro, amino,  $-\text{NH}_7$ ,  $-\text{NR}^7\text{R}^8$ ,  $-\text{NHCO}(C_1\text{-}C_4)$ alkyl,  $-\text{NHSO}_2(C_1\text{-}C_4)$ alkyl, oxo, hydroxyl,  $-\text{OR}^7$ , hydroxy(C1-C2)alkyl-, or  $R^7\text{O}(C_1\text{-}C_2)$ alkyl-;

 $\mathsf{R}^7$  is  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, aryl, heterocycloalkyl, or heterocycloalkyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, wherein said  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl,  $(\mathsf{C}_1\mathsf{-C}_4)$ alkoxy, amino,  $(\mathsf{C}_1\mathsf{-C}_4)$ alkylamino,  $((\mathsf{C}_1\mathsf{-C}_4)$ alkyl)( $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl)amino,  $-\mathsf{CO}_2\mathsf{H}$ ,  $-\mathsf{CO}_2(\mathsf{C}_1\mathsf{-C}_4)$ alkyl,  $-\mathsf{CONH}_2$ ,  $-\mathsf{CONH}(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, or  $-\mathsf{CON}((\mathsf{C}_1\mathsf{-C}_4)$ alkyl)( $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl); and wherein any heterocycloalkyl is optionally substituted by  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl; and

 $R^8$  is  $(C_1-C_4)$ alkyl;

or  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent a 5-7 membered heterocyclic ring, optionally containing an additional heteroatom selected from oxygen, nitrogen, and sulfur, wherein said ring is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl;

or a salt thereof.

The compounds of the invention are inhibitors of TNNI3K and can be useful for the treatment of cardiac diseases and disorders, particularly heart failure. Accordingly, the invention is further directed to pharmaceutical compositions comprising a compound of the invention. The invention is still further directed to methods of inhibiting TNNI3K and treatment of conditions associated therewith using a compound of the invention or a pharmaceutical composition comprising a compound of the invention.

Throughout this specification and the claims which follow, unless the context requires otherwise, the word "comprise", and variations such as "comprises" and "comprising", will be understood to imply the inclusion of a stated integer or step or group of integers or steps but not the exclusion of any other integer or step or group of integers or steps.

The reference in this specification to any prior publication (or information derived from it), or to any matter which is known, is not, and should not be taken as an acknowledgment or admission or any form of suggestion that that prior publication (or information derived from it) or known matter forms part of the common general knowledge in the field of endeavour to which this specification relates.

### DETAILED DESCRIPTION OF THE INVENTION

As used herein, the term "alkyl" represents a saturated, straight or branched hydrocarbon moiety, which may be unsubstituted or substituted by one or more of the substituents defined herein. Exemplary alkyls include, but are not limited to methyl, ethyl, n-propyl, isopropyl, n-butyl, isobutyl, s-butyl, t-butyl, pentyl, and hexyl. The term "C<sub>1</sub>-C<sub>4</sub>" refers to an alkyl containing from 1 to 4 carbon atoms.

When the term "alkyl" is used in combination with other substituent groups, such as "haloalkyl", "hydroxyalkyl", or "alkoxyalkyl", the term "alkyl" is intended to encompass a divalent straight or branched-chain hydrocarbon radical.

As used herein, the term "alkenyl" refers to straight or branched hydrocarbon chains containing the specified number of carbon atoms and at least 1 and up to 3 carbon-carbon double bonds. Examples include ethenyl and propenyl.

As used herein, the term "alkynyl" refers to straight or branched hydrocarbon chains containing the specified number of carbon atoms and at least 1 and up to 3 carbon-carbon triple bonds. Examples include ethynyl and propynyl.

As used herein, the term "cycloalkyl" refers to a non-aromatic, saturated, cyclic hydrocarbon ring. The term " $(C_3-C_8)$ cycloalkyl" refers to a non-aromatic cyclic hydrocarbon ring having from three to eight ring carbon atoms. Exemplary " $(C_3-C_8)$ cycloalkyl" groups useful in the present invention include cyclopropyl, cyclobutyl, cyclopentyl, cyclohexyl, cycloheptyl, and cyclooctyl.

"Alkoxy" refers to a group containing an alkyl radical attached through an oxygen linking atom. The term " $(C_1-C_4)$ alkoxy" refers to a straight- or branched-chain hydrocarbon radical having at least 1 and up to 4 carbon atoms attached through an oxygen linking atom. Exemplary " $(C_1-C_4)$ alkoxy" groups useful in the present invention include, but are not limited to, methoxy, ethoxy, n-propoxy, isopropoxy, n-butoxy, s-butoxy, and t-butoxy.

"Alkylthio-" refers to a group containing an alkyl radical attached through a sulfur linking atom. The term " $(C_1-C_4)$ alkylthio-" refers to a straight- or branched-chain hydrocarbon radical having at least 1 and up to 4 carbon atoms attached through a sulfur linking atom. Exemplary " $(C_1-C_4)$ alkylthio-" groups useful in the present invention include, but are not limited to, methylthio-, ethylthio-, n-propylthio-, isopropylthio-, n-butylthio-, s-butylthio-, and t-butylthio-.

"Cycloalkyloxy" refers to a group containing a saturated carbocyclic ring attached through an oxygen linking atom. Examples of "cycloalkyloxy" moieties include, but are not limited to, cyclopropyloxy, cyclobutyloxy, cyclopentyloxy, cyclohexyloxy, and the like.

"Aryl" represents a group or moiety comprising an aromatic, monovalent monocyclic or bicyclic hydrocarbon radical containing from 6 to 10 carbon ring atoms, which may be unsubstituted or substituted by one or more of the substituents defined herein, and to which may be fused to one or more cycloalkyl rings, which may be unsubstituted or substituted by one or more substituents defined herein.

Generally, in the compounds of this invention, aryl is phenyl.

Heterocyclic groups may be heteroaryl or heterocycloalkyl groups.

"Heterocycloalkyl" represents a group or moiety comprising a non-aromatic, monovalent monocyclic or bicyclic radical, which is saturated or partially unsaturated, containing 3 to 10 ring atoms, which includes 1 to 3 heteroatoms selected from nitrogen, oxygen and sulfur, and which may be unsubstituted or substituted by one or more of the substituents defined herein. Illustrative examples of heterocycloalkyls include, but are not limited to, azetidinyl, pyrrolidinyl, pyrazolidinyl, pyrazolinyl, imidazolidinyl, imidazolinyl, oxazolinyl, thiazolinyl, tetrahydrofuranyl, dihydrofuranyl, 1,3-dioxolanyl, piperidinyl, piperazinyl, morpholinyl, thiomorpholinyl, tetrahydropyranyl, dihydropyranyl, 1,3-dioxanyl, 1,4-dioxanyl, 1,3-oxathiolanyl, 1,3-oxathianyl, 1,3-dithianyl, hexahydro-1*H*-1,4-diazepinyl, azabicylo[3.2.1]octyl, azabicylo[3.3.1]nonyl, azabicylo[4.3.0]nonyl, oxabicylo[2.2.1]heptyl and 1,5,9-triazacyclododecyl.

Generally, in the compounds of this invention, heterocycloalkyl groups are 5-7 membered heterocycloalkyl groups, such as pyrrolidinyl, pyrazolidinyl, pyrazolinyl, imidazolidinyl, imidazolinyl, oxazolinyl, thiazolinyl, tetrahydrofuranyl, dihydrofuranyl, 1,3-dioxolanyl, piperidinyl, piperazinyl, morpholinyl, thiomorpholinyl, tetrahydropyranyl, dihydropyranyl, and hexahydro-1*H*-1,4-diazepinyl.

"Heteroaryl" represents a group or moiety comprising an aromatic monovalent monocyclic or bicyclic radical, containing 5 to 10 ring atoms, including 1 to 4 heteroatoms selected from nitrogen, oxygen and sulfur, which may be unsubstituted or substituted by one or more of the substituents defined herein. This term also encompasses bicyclic heterocyclic-aryl compounds containing an aryl ring moiety fused to a heterocycloalkyl ring moiety, containing 5 to 10 ring atoms, including 1 to 4 heteroatoms selected from nitrogen, oxygen and sulfur, which may be unsubstituted or substituted by one or more of the substituents defined herein. Illustrative examples of heteroaryls include, but are not limited to, furanyl, thienyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, triazinyl, benzofuranyl, isobenzofuryl, 2,3-dihydrobenzofuryl, 1,3-benzodioxolyl, dihydrobenzodioxinyl, benzothienyl, indolizinyl, indolyl, isoindolyl, dihydroisoindolyl, chromenyl, benzimidazolyl, dihydrobenzimidazolyl,

benzoxazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzothiazolyl, benzoisothiazolyl, dihydrobenzoisothiazolyl, indazolyl, imidazopyridinyl, pyrazolopyridinyl, benzotriazolyl, triazolopyridinyl, purinyl, quinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, isoquinolinyl, tetrahydroisoquinolinyl, quinoxalinyl, cinnolinyl, phthalazinyl, quinazolinyl, 1,5-naphthyridinyl, 1,6-naphthyridinyl, 1,7-naphthyridinyl, 1,8-naphthyridinyl, and pteridinyl.

Generally, the heteroaryl groups present in the compounds of this invention are 5-membered and/or 6-membered monocyclic heteroaryl groups. Selected 5-membered heteroaryl groups contain one nitrogen, oxygen or sulfur ring heteroatom, and optionally contain 1, 2, or 3 additional nitrogen ring atoms. Selected 6-membered heteroaryl groups contain 1, 2, or 3 nitrogen ring heteroatoms. Selected 5- or 6-membered heteroaryl groups include furanyl, thienyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, and triazinyl.

"Oxo" represents a double-bonded oxygen moiety; for example, if attached directly to a carbon atom forms a carbonyl moiety (C=O).

The terms "halogen" and "halo" represent chloro, fluoro, bromo, or iodo substituents. "Hydroxy" or "hydroxyl" is intended to mean the radical –OH.

As used herein, the term "compound(s) of the invention" means a compound of Formula I (as defined above) in any form, i.e., any salt or non-salt form (e.g., as a free acid or base form, or as a pharmaceutically acceptable salt thereof) and any physical form thereof (e.g., including non-solid forms (e.g., liquid or semi-solid forms), and solid forms (e.g., amorphous or crystalline forms, specific polymorphic forms, solvates, including hydrates (e.g., mono-, di- and hemi- hydrates)), and mixtures of various forms.

As used herein, the term "optionally substituted" means that the groups may be either unsubstituted or substituted with one or more of the specified substituents.

The alternative definitions for the various groups and substituent groups of Formula I provided throughout the specification are intended to particularly describe each compound species disclosed herein, individually, as well as groups of one or more compound species. The scope of this invention includes any combination of these group and substituent group definitions.

Suitably,  $R^1$  is  $(C_1\text{-}C_4)$ alkyl. In a specific embodiment of this invention,  $R^1$  is methyl.

Suitably, R<sup>2</sup> is hydrogen or halogen. In a specific embodiment of this invention, R<sup>2</sup> is hydrogen or fluorine. In a further specific embodiment of this invention, R<sup>2</sup> is hydrogen.

Suitably,  $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl,  $(C_3-C_6)$ cycloalkyl, aryl, hydroxyl, hydroxy( $C_1-C_4$ )alkyl-,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkyl-,  $(C_1-C_4)$ haloalkoxy,  $(C_3-C_6)$ cycloalkyloxy,  $(C_1-C_4)$ alkylthio-, amino,  $(C_1-C_4)$ alkylamino, or  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino. In another embodiment of this invention,  $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, phenyl,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkylhio-, or  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino. In a specific embodiment of this invention,  $R^3$  is hydrogen, chlorine, or dimethylamino. In a further specific embodiment of this invention,  $R^3$  is hydrogen. In yet a further specific embodiment of this invention,  $R^2$  and  $R^3$  are each hydrogen.

Suitably, R<sup>4</sup> is hydrogen, halogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>1</sub>-C<sub>8</sub>)haloalkyl, (C<sub>2</sub>-C<sub>8</sub>)cycloalkyl, hydroxyl, hydroxy( $C_1$ - $C_8$ )alkyl-, ( $C_1$ - $C_8$ )alkoxy, ( $C_1$ - $C_4$ )alkoxy( $C_1$ - $C_8$ )alkyl-,  $(C_1-C_8)$ haloalkoxy,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $(C_1-C_8)$ haloalkylthio-, -SO<sub>2</sub>(C<sub>1</sub>-C<sub>4</sub>)alkyl, amino, -NHR<sup>7</sup>, or -NR<sup>7</sup>R<sup>8</sup>. In another embodiment of this invention, R<sup>4</sup> is hydrogen, halogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>1</sub>-C<sub>8</sub>)haloalkyl, (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl, hydroxyl, hydroxy( $C_1$ - $C_8$ )alkyl-, ( $C_1$ - $C_8$ )alkoxy, ( $C_1$ - $C_4$ )alkoxy( $C_1$ - $C_8$ )alkyl-, ( $C_1$ - $C_8$ )haloalkoxy,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $(C_1-C_8)$ haloalkylthio-,  $-SO_2(C_1-C_4)$ alkyl, amino,  $(C_1-C_4)$ alkylamino,  $(C_1-C_4)$ haloalkylamino,  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino,  $((C_1-C_4)alkyl)((C_1-C_4)haloalkyl)amino, ((C_1-C_4)haloalkyl)((C_1-C_4)haloalkyl)amino,$ pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl, wherein said pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl is optionally substituted one or two times. independently, by halogen, (C<sub>1</sub>-C<sub>4</sub>)alkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, amino, (C<sub>1</sub>-C<sub>4</sub>)alkylamino,  $((C_1-C_4)alkyl)((C_1-C_4)alkyl)amino, hydroxyl, oxo, (C_1-C_4)alkoxy, or$  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl. In a further embodiment of this invention,  $R^4$  is hydrogen, halogen, (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>1</sub>-C<sub>8</sub>)haloalkyl, (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl, hydroxyl, hydroxy(C<sub>1</sub>-C<sub>8</sub>)alkyl-,  $(C_1-C_8)$ alkoxy,  $(C_1-C_4)$ alkoxy $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkoxy,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $-SO_2(C_1-C_4)$ alkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)alkyl)((C_1-C_4)alkyl)amino, pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidinyl,$ piperazinyl, morpholinyl, or thiomorpholinyl. In specific embodiments of this invention, R<sup>4</sup> is hydrogen, fluorine, chlorine, hydroxyl, methoxy, ethoxy, *n*-propyloxy, isopropyloxy, isobutyloxy, 3-methyl-2-butyloxy, 3-pentyloxy, trifluoromethoxy, 2,2,2-trifluoroethoxy, 1,1,1-trifluoro-2-propyloxy, 3,3,3-trifluoro-1-propyloxy, 1,1,1-trifluoro-2-methyl-2-propyloxy, 1,1,1,3,3,3-hexafluoro-2-methyl-2-propyloxy, cyclopentyloxy, cyclohexyloxy, methylthio-, ethylthio-, isobutylthio-, 2,2,2-trifluoroethylthio-, methylsulfone, ethylsulfone, isopropylsulfone, isobutylsulfone, tert-butylsulfone, amino, dimethylamino, ethylmethylamino, diethylamino, methyl-2,2,2-trifluoroethylamino, 2-methylpyrrolidin-1-yl,

(*R*)-2-trifluoromethylpyrrolidin-1-yl, 2,5-dimethylpyrrolidin-1-yl, 3,3-difluoropyrrolidin-1-yl, 3,3-difluoropiperidin-1-yl, or morpholin-4-yl.

In a further embodiment of the invention,  $R^4$  and  $R^5$  taken together with atoms through which they are connected form a 5 or 6 membered ring, optionally containing one or two additional heteroatoms selected from N, O and S, which ring may be unsubstituted or substituted with one to three substituents independently selected from  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, hydroxy $(C_1-C_4)$ alkyl-, oxo, hydroxyl,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ haloalkoxy, and  $(C_1-C_4)$ alkylthio-. In yet a further embodiment of the invention,  $R^4$  and  $R^5$  taken together with atoms through which they are connected form a partially saturated 5 or 6 membered ring, optionally containing one or two additional heteroatoms selected from N, O and S, which ring may be unsubstituted or substituted with one to three substituents independently selected from  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, hydroxy $(C_1-C_4)$ alkyl-,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ haloalkoxy, and  $(C_1-C_4)$ alkylthio-. In a specific embodiment of this invention,  $R^4$  and  $R^5$  taken together represent  $-CH_2CH_2-$ ,  $-C(CH_3)_2CH_2-$ , -CH=CH-, -NH(C=O)-, or -N=CH-. In a further specific embodiment of this invention,  $R^4$  and  $R^5$  taken together represent  $-CH_2CH_2-$ .

Suitably,  $R^6$  is  $(C_1-C_8)$ alkyl,  $(C_2-C_8)$ alkenyl,  $(C_2-C_8)$ alkynyl,  $(C_3-C_8)$ cycloalkyl, aryl, or heteroaryl, wherein any aryl or heteroaryl group is optionally substituted one to three times, independently, by halogen,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_2-C_6)$ alkynyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_4)$ haloalkyl, cyano,  $-CO(C_1-C_4)$ alkyl,  $-CO_2H$ ,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $HO_2C(C_1-C_2)$ alkyl-,  $R^7O_2C(C_1-C_2)$ alkyl-,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino,  $-NHR^7$ ,  $-NR^7R^8$ , amino $(C_1-C_2)$ alkyl-,  $R^7HN(C_1-C_2)$ alkyl-,  $R^7R^8N(C_1-C_2)$ alkyl-,  $R^7O(C_1-C_4)$ alkyl,  $R^7O(C_1-C_4)$ alkyl-, cyano $(C_1-C_4)$ alkyl-, aryl, heteroaryl, or heteroaryl $(C_1-C_2)$ alkyl-, wherein any said aryl or heteroaryl is optionally substituted one to three times, independently, by halogen,  $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_4)$ haloalkyl, cyano,  $-CO(C_1-C_4)$ alkyl,  $-CO_2H$ ,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NH_2$ ,  $-SO_2NH_2$ ,  $-SO_2NH_2$ ,  $-R^7O(C_1-C_2)$ alkyl-, oxo, hydroxyl,  $-R^7O(C_1-C_2)$ alkyl-, or  $-R^7O(C_1-C_4)$ alkyl,  $-R^7O(C_1$ 

In another embodiment of this invention,  $R^6$  is  $(C_1\text{-}C_6)$ alkyl, phenyl, dihydroindenyl, tetrahydronaphthalenyl, oxazolyl, thiazolyl, thiadiazolyl, pyridinyl, pyrimidinyl, indolyl, indazolyl, dihydroindolyl, dihydroisoindolyl, chromenyl, dihydrobenzimidazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzoisothiazolyl, quinolinyl, isoquinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, benzodioxolyl, or dihydrobenzodioxinyl, wherein said phenyl, dihydroindenyl, tetrahydronaphthalenyl,

oxazolyl, thiazolyl, thiadiazolyl, pyridinyl, pyrimidinyl, indolyl, indazolyl, dihydroindolyl, dihydroisoindolyl, chromenyl, dihydrobenzimidazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzoisothiazolyl, quinolinyl, isoquinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, tetrahydroisoguinolinyl, benzodioxolyl, or dihydrobenzodioxinyl group is optionally substituted one to three times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyano, -CO(C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CO<sub>2</sub>R<sup>7</sup>, -CONH<sub>2</sub>, -CONHR<sup>7</sup>, -CONR<sup>7</sup>R<sup>8</sup>, HO<sub>2</sub>C(C<sub>1</sub>-C<sub>2</sub>)alkyl-, R<sup>7</sup>O<sub>2</sub>C(C<sub>1</sub>-C<sub>2</sub>)alkyl-. cyano( $C_1-C_2$ )alkyl-,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino, -NHR<sup>7</sup>, -NR<sup>7</sup>R<sup>8</sup>, amino( $C_1$ - $C_2$ )alkyl-, R<sup>7</sup>HN( $C_1$ - $C_2$ )alkyl-, R<sup>7</sup>R<sup>8</sup>N( $C_1$ - $C_2$ )alkyl-, triazolyl( $C_1$ - $C_2$ )alkyl-, -NHCO( $C_1$ - $C_4$ )alkyl, -NHSO<sub>2</sub>( $C_1$ - $C_4$ )alkyl, oxo, hydroxyl, -OR<sup>7</sup>, hydroxy( $C_1$ - $C_2$ )alkyl-,  $R^7O(C_1$ - $C_2$ )alkyl-, phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl, wherein said phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl is optionally substituted one or two times, independently, by halogen,  $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_4)$ haloalkyl, cyano,  $-CO(C_1-C_4)$ alkyl,  $-CO_2H$ ,  $-CO_2R^7$ , -CONH<sub>2</sub>, -CONHR<sup>7</sup>, -CONR<sup>7</sup>R<sup>8</sup>, -SR<sup>7</sup>, -SO<sub>2</sub>(C<sub>1</sub>-C<sub>4</sub>)alkyl, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NHR<sup>7</sup>, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>, nitro, amino, -NHR<sup>7</sup>, -NR<sup>7</sup>R<sup>8</sup>, -NHCO(C<sub>1</sub>-C<sub>4</sub>)alkyl, -NHSO<sub>2</sub>(C<sub>1</sub>-C<sub>4</sub>)alkyl, oxo, hydroxyl,  $-OR^7$ , hydroxy(C<sub>1</sub>-C<sub>2</sub>)alkyl-, or  $R^7O(C_1-C_2)$ alkyl-.

In yet another embodiment of this invention, R<sup>6</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, phenyl, oxazolyl, thiazolyl, thiadiazolyl, pyridinyl, indolyl, indazolyl, dihydroindolyl, dihydrobenzimidazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzoisothiazolyl, quinolinyl, isoquinolinyl, tetrahydroguinolinyl, tetrahydroisoguinolinyl, or dihydrobenzodioxinyl, wherein said phenyl, oxazolyl, thiazolyl, thiadiazolyl, pyridinyl, indolyl, indazolyl, dihydroindolyl, dihydrobenzimidazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzoisothiazolyl, quinolinyl, isoquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, or dihydrobenzodioxinyl group is optionally substituted one or two times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyano, -CO(C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $+C_2C(C_1-C_2)$ alkyl-,  $+R^7O_2C(C_1-C_2)$ alkyl-,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino,  $-NHR^7$ ,  $-NR^7R^8$ , amino( $C_1$ - $C_2$ )alkyl-,  $R^7$ HN( $C_1$ - $C_2$ )alkyl-,  $R^7$ R $^8$ N( $C_1$ - $C_2$ )alkyl-, -NHCO( $C_1$ - $C_4$ )alkyl, -NHSO<sub>2</sub>( $C_1$ - $C_4$ )alkyl, oxo, hydroxyl, -OR<sup>7</sup>, hydroxy( $C_1$ - $C_2$ )alkyl-, R<sup>7</sup>O( $C_1$ - $C_2$ )alkyl-, phenyl, thienyl, pyrazolyl, imidazolyl, or pyridinyl, wherein said phenyl, thienyl, pyrazolyl, imidazolyl, or pyridinyl is optionally substituted one or two times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyano, -CO(C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino,  $-NHR^7$ ,  $-NR^7R^8$ ,  $-NHCO(C_1-C_4)$ alkyl,  $-NHSO_2(C_1-C_4)$ alkyl, oxo, hydroxyl,  $-OR^7$ , hydroxy( $C_1-C_2$ )alkyl-, or  $R^7O(C_1-C_2)$ alkyl-.

In a further embodiment of this invention,  $R^6$  is phenyl optionally substituted one to three times, independently, by halogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_2\text{-}C_6)$ alkenyl,  $(C_2\text{-}C_6)$ alkynyl,  $(C_3\text{-}C_6)$ cycloalkyl,  $(C_1\text{-}C_4)$ haloalkyl, cyano,  $-\text{CO}(C_1\text{-}C_4)$ alkyl,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2\text{R}^7$ ,  $-\text{CONH}_2$ ,  $-\text{CONHR}^7$ ,  $-\text{CONR}^7\text{R}^8$ ,  $+\text{HO}_2\text{C}(C_1\text{-}C_2)$ alkyl-,  $+\text{R}^7\text{O}_2\text{C}(C_1\text{-}C_2)$ alkyl-, cyano $(C_1\text{-}C_2)$ alkyl-,  $-\text{SR}^7$ ,  $-\text{SO}_2(C_1\text{-}C_4)$ alkyl,  $-\text{SO}_2\text{NHR}^7$ ,  $-\text{SO}_2\text{NR}^7\text{R}^8$ , nitro, amino,  $-\text{NHR}^7$ ,  $-\text{NR}^7\text{R}^8$ , amino $(C_1\text{-}C_2)$ alkyl-,  $+\text{R}^7\text{HN}(C_1\text{-}C_2)$ alkyl-,  $+\text{R}^7\text{R}^8\text{N}(C_1\text{-}C_2)$ alkyl-, triazolyl $+\text{R}^7\text{N}(C_1\text{-}C_2)$ alkyl-,  $+\text{NHCO}(C_1\text{-}C_4)$ alkyl,  $+\text{NHSO}_2(C_1\text{-}C_4)$ alkyl, oxo, hydroxyl,  $+\text{OR}^7$ , hydroxy $+\text{C}_1\text{-}C_2$ alkyl-,  $+\text{R}^7\text{O}(C_1\text{-}C_2)$ alkyl-, phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl, wherein said phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl is optionally substituted one or two times, independently, by halogen,  $+\text{CO}_2\text{R}^7$ ,  $+\text{CONH}^7$ ,  $+\text{CO}_2\text{R}^7$ ,  $+\text{CONH}^7$ ,  $+\text{CO}_2\text{R}^7$ ,  $+\text{NH}^7$ ,  $+\text{NH}^$ 

In yet a further embodiment of this invention,  $R^6$  is phenyl optionally substituted one or two times, independently, by halogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_3\text{-}C_6)$ cycloalkyl,  $(C_1\text{-}C_4)$ haloalkyl, cyano,  $-\text{CO}(C_1\text{-}C_4)$ alkyl,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2\text{R}^7$ ,  $-\text{CONH}_2$ ,  $-\text{CONHR}^7$ ,  $-\text{CONR}^7\text{R}^8$ ,  $+\text{CO}_2\text{C}(C_1\text{-}C_2)$ alkyl-,  $+\text{CO}_2\text{R}^7$ ,  $+\text{CO}_2\text{R}^7$ ,

In still a further embodiment of this invention,  $R^6$  is pyridinyl optionally substituted one or two times, independently, by halogen,  $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_4)$ haloalkyl, cyano,  $-CO(C_1-C_4)$ alkyl,  $-CO_2H$ ,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $+CO_2C(C_1-C_2)$ alkyl-,  $+CO_2C(C_1-C_2)$ alkyl-,  $+CO_2C(C_1-C_4)$ alkyl-,  $+CO_2C(C_1-C_4)$ alkyl-,  $+CO_2C(C_1-C_4)$ alkyl-,  $+CO_2C(C_1-C_4)$ alkyl-,  $+CC_2C(C_1-C_4)$ alkyl-. In still a further embodiment of this invention,  $+CC_2C(C_1-C_4)$ alkyl-,  $+CC_2C(C_1-C_4)$ alkyl-,  $+CC_2C(C_1-C_4)$ alkyl-,  $+CC_2C(C_1-C_4)$ alkyl-, or cyano.

In a specific embodiment of this invention, R<sup>6</sup> is methyl, ethyl, oxazol-2-yl, oxazol-5-yl, 4-methyl-oxazol-2-yl, thiazol-2-yl, 4-trifluoromethyl-thiazol-2-yl, 4-isopropyl-thiazol-2yl, 5-methyl-thiazol-2-yl, 4-carboxymethyl-thiazol-2-yl, 4-(methoxycarbonyl)methyl-thiazol-2-vl, 5-carboxy-thiazol-2-vl, 1,3,4-thiadiazol-2-vl, pyridin-2-vl, 3-fluoro-pyridin-2-vl, 5-fluoro-pyridin-2-yl, 5-chloro-pyridin-2-yl, 5-isopropyl-pyridin-2-yl, 5-trifluoromethylpyridin-2-yl, 5-cyano-pyridin-2-yl, 5-chloro-3-fluoro-pyridin-2-yl, 3,5-dichloro-pyridin-2-yl, 4.5-dichloro-pyridin-2-yl, 5-chloro-4-methyl-pyridin-2-yl, 5-chloro-6-methyl-pyridin-2-yl, 5-bromo-6-methyl-pyridin-2-yl, 6-bromo-4-methyl-pyridin-2-yl, pyridin-3-yl, 5-methylpyridin-3-yl, 6-trifluoromethyl-pyridin-3-yl, 5-methylsulfonamide-pyridin-3-yl, pyridin-4-yl, pyrimidin-4-yl, 2,3-dihydro-1*H*-inden-5-yl, 5-oxo-5,6,7,8-tetrahydronaphthalen-2-yl, 1*H*-indol-5-yl, 1*H*-indol-6-yl, 1-acetyl-2,3-dihydro-1*H*-indol-6-yl, 2-methyl-1,3-dioxo-2,3dihydro-1H-isoindol-5-yl, 1H-indazol-5-yl, 1H-indazol-6-yl, 3-methyl-1H-indazol-6-yl, 2-oxo-2,3-dihydro-1*H*-indol-5-yl, 2-oxo-2,3-dihydro-1*H*-indol-6-yl, 2-methyl-4-oxo-4*H*chromen-7-yl, 4-methyl-2-oxo-2H-chromen-7-yl, 2-oxo-2,3-dihydro-1H-benzimidazol-5-yl, 2-oxo-2,3-dihydro-1,3-benzoxazol-6-yl, 2-methyl-1,3-benzothiazol-5-yl, 1,3-benzothiazol-5-yl, 1,3-benzothiazol-6-yl, 1,1-dioxido-2,3-dihydro-1,2-benzisothiazol-6-yl, quinolin-2-yl, quinolin-6-yl, isoquinolin-3-yl, 4-methyl-2-oxo-1,2-dihydroquinolin-7-yl, 2-methyl-1,2,3,4tetrahydroisoguinolin-7-yl, 2-oxo-1,2,3,4-tetrahydroguinolin-7-yl, 1,3-benzodioxol-5-yl, 2,3-dihydro-1,4-benzodioxin-6-yl, phenyl, 2-fluorophenyl, 3-fluorophenyl, 4-fluorophenyl, 3-chlorophenyl, 4-chlorophenyl, 3-bromophenyl, 4-bromophenyl, 3,4-difluorophenyl, 3.4-dichlorophenyl, 3.5-dichlorophenyl, 3-fluoro-4-chlorophenyl, 3-bromo-4-chlorophenyl, 3-bromo-5-chlorophenyl, 3,4,5-trifluorophenyl, 3-methylphenyl, 4-methylphenyl, 3-isopropylphenyl, 4-isopropylphenyl, 4-sec-butylphenyl, 3-tert-butylphenyl, 4-tert-butylphenyl, 3,4-dimethylphenyl, 3,5-dimethylphenyl, 3-fluoro-4- methylphenyl, 4-fluoro-3-methylphenyl, 4-chloro-3-methylphenyl, 3-bromo-5-methylphenyl, 3-ethynylphenyl, 3-trifluoromethylphenyl, 4-trifluoromethylphenyl, 3-fluoro-4trifluoromethylphenyl, 4-chloro-3-trifluoromethylphenyl, 4-methyl-3-trifluoromethylphenyl, 4-cyclopropylphenyl, 4-(2,2,2-trifluoroethyl)phenyl, 4-(thien-2-yl)phenyl, 4-(1H-pyrazol-1yl)phenyl, 4-(3,5-dimethyl-1*H*-pyrazol-1-yl)phenyl, 4-(2-methyl-1*H*-imidazol-1-yl)phenyl, 4-(oxazol-5-yl)phenyl, 3-(2-methyl-thiazol-4-yl)phenyl, 3-biphenylyl, 3'-aminocarbonyl-3biphenylyl, 4'-aminocarbonyl-3-biphenylyl, 3'-dimethylamino-3-biphenylyl, 4'-dimethylamino-3-biphenylyl, 4'-morpholin-4-yl-3-biphenylyl, 3'-acetylamino-3-biphenylyl, 4'-acetylamino-3-biphenylyl, 3'-[(methylsulfonyl)amino]-3-biphenylyl, 4'-[(methylsulfonyl)amino]-3-biphenylyl, 3'-[(methylamino)sulfonyl]-3-biphenylyl, 4'-[(methylamino)sulfonyl]-3-biphenylyl, 5-methyl-3-biphenylyl, 4-chloro-3'-morpholin-4-yl-3-biphenylyl, 4-chloro-3'-aminocarbonyl-3-biphenylyl, 3-(4-methoxy-pyridin-3-yl)phenyl,

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3-(5-methoxy-pyridin-3-yl)phenyl, 3-(6-methoxy-pyridin-3-yl)phenyl, 3-(6-oxo-pyridin-3-
yl)phenyl, 3-(6-dimethylamino-pyridin-3-yl)phenyl, 5-methyl-3-(pyridin-3-yl)phenyl,
4-chloro-3-(pyridin-3-yl)phenyl, 4-(cyanomethyl)phenyl, 3-(1-pyrrolidinylmethyl)phenyl,
3-[(4-methyl-1-piperazinyl)methyl]phenyl, 4-(1H-1,2,4-triazol-1-ylmethyl)phenyl, 4-(4H-
1,2,4-triazol-4-ylmethyl)phenyl, 3-acetylphenyl, 4-acetylphenyl, 4-carboxyphenyl,
4-[(methoxy)carbonyl]phenyl, 4-[(isopropoxy)carbonyl]phenyl, 3-aminocarbonylphenyl,
4-aminocarbonylphenyl, 4-(methylamino)carbonylphenyl,
4-(dimethylaminoethylamino)carbonylphenyl, 4-(hydroxyethylamino)carbonylphenyl,
4-(methoxyethylamino)carbonylphenyl, 4-(methoxypropylamino)carbonylphenyl,
4-(carboxymethylamino)carbonylphenyl, 4-[(1-methyl-piperidin-4-yl)amino]carbonylphenyl,
3-(phenylamino)carbonylphenyl, 4-(phenylamino)carbonylphenyl,
4-(dimethylamino)carbonylphenyl, 4-(diethylamino)carbonylphenyl, 4-[N-methyl-N-(N',N'-
dimethylaminoethyl)amino]carbonylphenyl, 4-(pyrrolidin-1-yl)carbonylphenyl, 4-[(3S)-3-
(dimethylamino)pyrrolidin-1-yl]carbonylphenyl, 4-[(3R)-3-(dimethylamino)pyrrolidin-1-
vllcarbonylphenyl, 4-(4,4-difluoropiperidin-1-yl)carbonylphenyl, 4-(morpholin-4-
yl)carbonylphenyl, 4-(thiomorpholin-4-yl)carbonylphenyl, 4-(piperazin-1-yl)carbonylphenyl,
4-(4-methyl-piperazin-1-yl)carbonylphenyl, 4-(4-methoxyethyl-piperazin-1-
yl)carbonylphenyl, 4-(4-methyl-hexahydro-1H-1,4-diazepin-1-yl)carbonylphenyl,
4-cyanophenyl, 3-chloro-4-cyanophenyl, 3-nitrophenyl, 3-dimethylaminophenyl,
4-dimethylaminophenyl, 3-(pyrrolidin-1-yl)phenyl, 4-(piperidin-1-yl)phenyl, 4-(piperazin-1-
vl)phenyl, 3-(morpholin-4-yl)phenyl, 4-(morpholin-4-yl)phenyl, 3-(4-methyl-piperazin-1-
yl)phenyl, 3-(acetylamino)phenyl, 4-(acetylamino)phenyl, 3-(propionylamino)phenyl,
4-(2-oxo-pyrrolidin-1-yl)phenyl, 3-[(methylsulfonyl)amino]phenyl, 3-hydroxyphenyl,
3-methoxyphenyl, 4-methoxyphenyl, 4-difluoromethoxyphenyl, 4-trifluoromethoxyphenyl,
3-ethoxyphenyl, 3-(2,2,2-trifluoroethoxy)phenyl, 4-isopropoxyphenyl,
3-(carboxymethyloxy)phenyl, 3-[(isopropoxycarbonyl)methyloxy]phenyl,
3-[(dimethylaminocarbonyl)methyloxy]phenyl, 4-(methoxyethyloxy)phenyl,
4-(dimethylaminoethyloxy)phenyl, 4-(diethylaminoethyloxy)phenyl, 4-[(morpholin-4-
yl)ethyloxylphenyl, 3-fluoro-4-methoxyphenyl, 3-chloro-4-hydroxyphenyl, 3-chloro-4-
methoxyphenyl, 4-chloro-3-methoxyphenyl, 3-methoxy-5-trifluoromethylphenyl,
4-methoxy-3-trifluoromethylphenyl, 3,4-dimethoxyphenyl, 3,5-dimethoxyphenyl,
3,5-dichloro-4-hydroxyphenyl, 2,3,4-trimethoxyphenyl, 3,4,5-trimethoxyphenyl,
4-(methylthio)phenyl, 4-(trifluoromethylthio)phenyl, 3-methylsulfonylphenyl,
4-methylsulfonylphenyl, 3-aminosulfonylphenyl, 3-(methylamino)sulfonylphenyl,
4-(methylamino)sulfonylphenyl, 3-(ethylamino)sulfonylphenyl,
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3-(isopropylamino)sulfonylphenyl, 3-(dimethylamino)sulfonylphenyl, or 3-(morpholin-4-yl)sulfonylphenyl.

Suitably,  $R^7$  is  $(C_1-C_4)$ alkyl, aryl, heterocycloalkyl, or heterocycloalkyl $(C_1-C_2)$ alkyl, wherein said (C<sub>1</sub>-C<sub>4</sub>)alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl, (C<sub>1</sub>-C<sub>4</sub>)alkoxy, amino, (C<sub>1</sub>-C<sub>4</sub>)alkylamino,  $((C_1-C_4)alkyl)((C_1-C_4)alkyl)amino, -CO_2H, -CO_2(C_1-C_4)alkyl, -CONH_2, -CONH(C_1-C_4)alkyl,$ or -CON((C<sub>1</sub>-C<sub>4</sub>)alkyl)((C<sub>1</sub>-C<sub>4</sub>)alkyl); and wherein any heterocycloalkyl is optionally substituted by (C₁-C₄)alkyl. In another embodiment of this invention, R<sup>7</sup> is (C₁-C₄)alkyl. phenyl, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or pyrrolidinyl( $C_1$ - $C_2$ )alkyl, piperidinyl( $C_1$ - $C_2$ )alkyl, morpholinyl( $C_1$ - $C_2$ )alkyl, thiomorpholinyl( $C_1$ - $C_2$ )alkyl, or piperazinyl( $C_1$ - $C_2$ )alkyl, wherein said ( $C_1$ - $C_4$ )alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl,  $(C_1-C_4)$ alkoxy, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino,  $(C_2-C_4)$ alkyl)amino,  $(C_3-C_4)$ alkyl  $-CO_2(C_1-C_4)$ alkyl,  $-CONH_2$ ,  $-CONH(C_1-C_4)$ alkyl, or  $-CON((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl); and wherein any pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, or piperazinyl is optionally substituted by (C<sub>1</sub>-C<sub>4</sub>)alkyl. In a specific embodiment of this invention, R<sup>7</sup> is methyl, difluoromethyl, trifluoromethyl, ethyl, 2,2,2-trifluoroethyl, isopropyl, dimethylaminoethyl, diethylaminoethyl, hydroxyethyl, methoxyethyl, methoxypropyl, carboxymethyl, (isopropoxycarbonyl)methyl, (dimethylaminocarbonyl)methyl, phenyl, 1-methyl-piperidin-4-yl, or (morpholin-4-yl)ethyl.

Suitably,  $R^8$  is  $(C_1\text{-}C_4)$ alkyl. In a specific embodiment of this invention,  $R^8$  is methyl or ethyl.

In another embodiment of this invention,  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent a 5-7 membered heterocyclic ring, optionally containing an additional heteroatom selected from oxygen, nitrogen, and sulfur, wherein said ring is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl. In yet another embodiment of this invention,  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or hexahydro-1H-1,4-diazepinyl, each optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl. In a specific embodiment of this invention,  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent pyrrolidinyl, 2-methylpyrrolidinyl, 2-trifluoromethylpyrrolidinyl, 3-(dimethylamino)pyrrolidinyl,

2-oxo-pyrrolidinyl, 2,5-dimethylpyrrolidinyl, 3,3-difluoropyrrolidinyl, piperidinyl, 3,3-difluoropiperidinyl, 4,4-difluoropiperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, 4-methylpiperazinyl, 4-methylpiperazinyl, or 4-methylpiperazinyl, 4-diazepinyl.

One particular embodiment of the invention is a compound of Formula I or a salt thereof wherein:

R<sup>1</sup> is (C<sub>1</sub>-C<sub>4</sub>)alkyl;

R<sup>2</sup> is hydrogen;

 $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl,  $(C_3-C_6)$ cycloalkyl, aryl, hydroxyl, hydroxy( $C_1-C_4$ )alkyl-,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkyl-,  $(C_1-C_4)$ haloalkoxy,  $(C_3-C_6)$ cycloalkyloxy,  $(C_1-C_4)$ alkylthio-, amino,  $(C_1-C_4)$ alkylamino, or  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino;

 $R^4$  is hydrogen, halogen,  $(C_1-C_8)$ alkyl,  $(C_1-C_8)$ haloalkyl,  $(C_3-C_8)$ cycloalkyl, hydroxyl, hydroxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ alkoxy,  $(C_1-C_4)$ alkoxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkoxy,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $-SO_2(C_1-C_4)$ alkyl, or  $-NR^7R^8$ ;

R<sup>5</sup> is hydrogen;

or  $R^4$  and  $R^5$  taken together with atoms through which they are connected form a partially saturated 5 or 6 membered ring, optionally containing one or two additional heteroatoms selected from N, O and S, which ring may be unsubstituted or substituted with one to three substituents independently selected from  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, hydroxy $(C_1-C_4)$ alkyl-,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ haloalkoxy, and  $(C_1-C_4)$ alkylthio-;

 $R^6$  is  $(C_1\text{-}C_8)$ alkyl,  $(C_2\text{-}C_8)$ alkenyl,  $(C_2\text{-}C_8)$ alkynyl,  $(C_3\text{-}C_8)$ cycloalkyl, aryl, or heteroaryl, wherein any aryl or heteroaryl group is optionally substituted one to three times, independently, by halogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_3\text{-}C_6)$ cycloalkyl,  $(C_1\text{-}C_4)$ haloalkyl, cyano,  $-\text{CO}(C_1\text{-}C_4)$ alkyl,  $-\text{CO}_2\text{R}^7$ ,  $-\text{CONH}_2$ ,  $-\text{CONHR}^7$ ,  $-\text{CONR}^7\text{R}^8$ ,  $+\text{HO}_2\text{C}(C_1\text{-}C_2)$ alkyl-,  $R^7\text{O}_2\text{C}(C_1\text{-}C_2)$ alkyl-,  $-\text{SR}^7$ ,  $-\text{SO}_2(C_1\text{-}C_4)$ alkyl,  $-\text{SO}_2\text{NH}_2$ ,  $-\text{SO}_2\text{NHR}^7$ ,  $-\text{SO}_2\text{NR}^7\text{R}^8$ , nitro, amino,  $-\text{NHR}^7$ ,  $-\text{NR}^7\text{R}^8$ , amino( $C_1\text{-}C_2$ )alkyl-,  $R^7\text{HN}(C_1\text{-}C_2)$ alkyl-,  $R^7\text{R}^8\text{N}(C_1\text{-}C_2)$ alkyl-,  $-\text{NHCO}(C_1\text{-}C_4)$ alkyl,  $-\text{NHSO}_2(C_1\text{-}C_4)$ alkyl, oxo, hydroxyl,  $-\text{OR}^7$ , hydroxy( $C_1\text{-}C_2$ )alkyl-,  $R^7\text{O}(C_1\text{-}C_2)$ alkyl-, aryl, or heteroaryl, wherein said aryl or heteroaryl is optionally substituted one to three times, independently, by halogen,  $(C_1\text{-}C_6)$ alkyl,  $(C_3\text{-}C_6)$ cycloalkyl,  $(C_1\text{-}C_4)$ haloalkyl, cyano,  $-\text{CO}(C_1\text{-}C_4)$ alkyl,  $-\text{CO}_2\text{H}$ ,  $-\text{CO}_2\text{R}^7$ ,  $-\text{CONH}_2$ ,  $-\text{CONHR}^7$ ,  $-\text{CONR}^7\text{R}^8$ ,  $-\text{SR}^7$ ,  $-\text{SO}_2(C_1\text{-}C_4)$ alkyl,  $-\text{SO}_2\text{NHR}^7$ ,  $-\text{SO}_2\text{NR}^7\text{R}^8$ , nitro, amino,  $-\text{NHR}^7$ ,  $-\text{NR}^7\text{R}^8$ ,  $-\text{NHCO}(C_1\text{-}C_4)$ alkyl,  $-\text{NHSO}_2(C_1\text{-}C_4)$ alkyl, oxo, hydroxyl,  $-\text{OR}^7$ , hydroxy( $C_1\text{-}C_2$ )alkyl-, or  $R^7\text{O}(C_1\text{-}C_2)$ alkyl-;

 $R^7$  is  $(C_1-C_4)$ alkyl, aryl, heterocycloalkyl, or heterocycloalkyl $(C_1-C_2)$ alkyl, wherein said  $(C_1-C_4)$ alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl,  $(C_1-C_4)$ alkoxy, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino,

-CO<sub>2</sub>H, -CO<sub>2</sub>(C<sub>1</sub>-C<sub>4</sub>)alkyl, -CONH<sub>2</sub>, -CONH(C<sub>1</sub>-C<sub>4</sub>)alkyl, or -CON((C<sub>1</sub>-C<sub>4</sub>)alkyl)((C<sub>1</sub>-C<sub>4</sub>)alkyl); and wherein any heterocycloalkyl is optionally substituted by (C<sub>1</sub>-C<sub>4</sub>)alkyl; and

 $R^8$  is  $(C_1-C_4)$ alkyl;

or  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent a 5-7 membered heterocyclic ring, optionally containing an additional heteroatom selected from oxygen, nitrogen, and sulfur, wherein said ring is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $((C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl.

Another particular embodiment of the invention is a compound of Formula I or a salt thereof wherein:

R<sup>1</sup> is methyl;

R<sup>2</sup> is hydrogen or fluorine;

 $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, phenyl,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkylthio-, or  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino;  $R^4$  is hydrogen, halogen,  $(C_1-C_8)$ alkyl,  $(C_1-C_8)$ haloalkyl,  $(C_3-C_8)$ cycloalkyl, hydroxyl, hydroxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkyl-,  $(C_1-C_8)$ haloalkyl-,  $(C_1-C_8)$ alkyl-, amino,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $(C_1-C_8)$ haloalkylthio-,  $-SO_2(C_1-C_4)$ alkyl, amino,  $(C_1-C_4)$ alkylamino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, pyrrolidinyl, imidazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl, imidazolidinyl, pyrazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ alkyl, amino,  $(C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkyl);

R<sup>5</sup> is hydrogen;

 $\mathsf{R}^6$  is phenyl optionally substituted one to three times, independently, by halogen,  $(\mathsf{C}_1\mathsf{-}\mathsf{C}_6)$ alkyl,  $(\mathsf{C}_2\mathsf{-}\mathsf{C}_6)$ alkenyl,  $(\mathsf{C}_2\mathsf{-}\mathsf{C}_6)$ alkynyl,  $(\mathsf{C}_3\mathsf{-}\mathsf{C}_6)$ cycloalkyl,  $(\mathsf{C}_1\mathsf{-}\mathsf{C}_4)$ haloalkyl, cyano,  $-\mathsf{CO}(\mathsf{C}_1\mathsf{-}\mathsf{C}_4)$ alkyl,  $-\mathsf{CO}_2\mathsf{H}$ ,  $-\mathsf{CO}_2\mathsf{R}^7$ ,  $-\mathsf{CONH}_2$ ,  $-\mathsf{CONHR}^7$ ,  $-\mathsf{CONR}^7\mathsf{R}^8$ ,  $\mathsf{HO}_2\mathsf{C}(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-,  $\mathsf{R}^7\mathsf{O}_2\mathsf{C}(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-, cyano $(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-,  $-\mathsf{SR}^7$ ,  $-\mathsf{SO}_2(\mathsf{C}_1\mathsf{-}\mathsf{C}_4)$ alkyl,  $-\mathsf{SO}_2\mathsf{NH}_2$ ,  $-\mathsf{SO}_2\mathsf{NHR}^7$ ,  $-\mathsf{SO}_2\mathsf{NR}^7\mathsf{R}^8$ , nitro, amino,  $-\mathsf{NHR}^7$ ,  $-\mathsf{NR}^7\mathsf{R}^8$ , amino $(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-,  $\mathsf{R}^7\mathsf{HN}(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-, triazolyl $(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-,  $-\mathsf{NHCO}(\mathsf{C}_1\mathsf{-}\mathsf{C}_4)$ alkyl,  $-\mathsf{NHSO}_2(\mathsf{C}_1\mathsf{-}\mathsf{C}_4)$ alkyl, oxo, hydroxyl,  $-\mathsf{OR}^7$ , hydroxy $(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-,  $\mathsf{R}^7\mathsf{O}(\mathsf{C}_1\mathsf{-}\mathsf{C}_2)$ alkyl-, phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl, wherein said phenyl, thienyl, pyrazolyl,

imidazolyl, oxazolyl, thiazolyl, or pyridinyl is optionally substituted one or two times, independently, by halogen,  $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_4)$ haloalkyl, cyano,  $-CO(C_1-C_4)$ alkyl,  $-CO_2H$ ,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino,  $-NHR^7$ ,  $-NR^7R^8$ ,  $-NHCO(C_1-C_4)$ alkyl,  $-NHSO_2(C_1-C_4)$ alkyl, oxo, hydroxyl,  $-OR^7$ , hydroxy( $C_1-C_2$ )alkyl-, or  $R^7O(C_1-C_2)$ alkyl-;

 $\mathsf{R}^7$  is  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, phenyl, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or pyrrolidinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, piperidinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, morpholinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, thiomorpholinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, or piperazinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, wherein said ( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl, ( $\mathsf{C}_1\mathsf{-C}_4$ )alkoxy, amino, ( $\mathsf{C}_1\mathsf{-C}_4$ )alkylamino, (( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl)(( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl)amino,  $-\mathsf{CO}_2\mathsf{H}$ ,  $-\mathsf{CO}_2(\mathsf{C}_1\mathsf{-C}_4)$ alkyl,  $-\mathsf{CONH}_2$ ,  $-\mathsf{CONH}(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, or  $-\mathsf{CON}((\mathsf{C}_1\mathsf{-C}_4)$ alkyl)(( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl); and wherein any pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, or piperazinyl is optionally substituted by ( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl; and

R<sup>8</sup> is methyl or ethyl;

or  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or hexahydro-1*H*-1,4-diazepinyl, each optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl.

Another particular embodiment of the invention is a compound of Formula I or a salt thereof wherein:

R<sup>1</sup> is methyl;

R<sup>2</sup> is hydrogen or fluorine:

 $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, phenyl,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkylthio-, or  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino;  $R^4$  is hydrogen, halogen,  $(C_1-C_8)$ alkyl,  $(C_1-C_8)$ haloalkyl,  $(C_3-C_8)$ cycloalkyl, hydroxyl, hydroxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkylthio-,  $-SO_2(C_1-C_4)$ alkyl, amino,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $(C_1-C_8)$ haloalkylthio-,  $-SO_2(C_1-C_4)$ alkyl, amino,  $(C_1-C_4)$ alkylamino,  $(C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl, wherein said pyrrolidinyl, imidazolidinyl, pyrazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl);

R<sup>5</sup> is hydrogen;

 $R^6$  is pyridinyl optionally substituted one or two times, independently, by halogen,  $(C_1-C_6) \text{alkyl}, \ (C_3-C_6) \text{cycloalkyl}, \ (C_1-C_4) \text{haloalkyl}, \ \text{cyano}, \ \text{-CO}(C_1-C_4) \text{alkyl}, \ \text{-CO}_2 \text{H}, \ \text{-CO}_2 \text{R}^7, \ \text{-CONH}_2, \ \text{-CONH}_7, \ \text{-CONR}^7 \text{R}^8, \ \text{HO}_2 \text{C}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{R}^7 \text{O}_2 \text{C}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{-SR}^7, \ \text{-SO}_2 (\text{C}_1-\text{C}_4) \text{alkyl}, \ \text{-SO}_2 \text{NH}_2, \ \text{-SO}_2 \text{NHR}^7, \ \text{-SO}_2 \text{NR}^7 \text{R}^8, \ \text{nitro}, \ \text{amino}, \ \text{-NHR}^7, \ \text{-NR}^7 \text{R}^8, \ \text{amino}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{R}^7 \text{HN}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{R}^7 \text{R}^8 \text{N}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{-NHCO}(\text{C}_1-\text{C}_4) \text{alkyl}, \ \text{-NHSO}_2 (\text{C}_1-\text{C}_4) \text{alkyl}, \ \text{oxo}, \ \text{hydroxyl}, \ \text{-OR}^7, \ \text{hydroxy}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{or} \ \text{R}^7 \text{O}(\text{C}_1-\text{C}_2) \text{alkyl}, \ \text{-}$ 

 $\mathsf{R}^7$  is  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, phenyl, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or pyrrolidinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, piperidinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, morpholinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, thiomorpholinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, or piperazinyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, wherein said ( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl, ( $\mathsf{C}_1\mathsf{-C}_4$ )alkoxy, amino, ( $\mathsf{C}_1\mathsf{-C}_4$ )alkylamino, (( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl)(( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl)amino,  $-\mathsf{CO}_2\mathsf{H}$ ,  $-\mathsf{CO}_2(\mathsf{C}_1\mathsf{-C}_4)$ alkyl,  $-\mathsf{CONH}_2$ ,  $-\mathsf{CONH}(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, or  $-\mathsf{CON}((\mathsf{C}_1\mathsf{-C}_4)$ alkyl)(( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl); and wherein any pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, or piperazinyl is optionally substituted by ( $\mathsf{C}_1\mathsf{-C}_4$ )alkyl; and

R<sup>8</sup> is methyl or ethyl;

or  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or hexahydro-1*H*-1,4-diazepinyl, each optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl.

### Specific compounds of this invention include:

N-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(3-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-(methylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

- 3-{[6-(ethylamino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide;
- 3,3'-(4,6-pyrimidinediyldiimino)bis(*N*-methylbenzenesulfonamide);
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-5-(dimethylamino)-*N*-methylbenzenesulfonamide;

3-chloro-5-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(propyloxy)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(ethyloxy)-*N*-methylbenzenesulfonamide;

- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2-methylpropyl)oxy]benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1,2-dimethylpropyl)oxy]-*N*-methylbenzenesulfonamide;
- 4-chloro-3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclohexyloxy)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1-ethylpropyl)oxy]-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(3,3,3-trifluoropropyl)oxy]-benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclopentyloxy)-*N*-methylbenzenesulfonamide;
- 5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro-4-methoxy-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[methyl(2,2,2-trifluoroethyl)amino]benzenesulfonamide;
- 1-[6-(4-chloro-phenylamino)-pyrimidin-4-yl]-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid methylamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;
- 5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro-*N*-methyl-4-(2,2,2-trifluoroethoxy)benzenesulfonamide;
- 4-amino-3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 5-[6-(4-chloro-phenylamino)-pyrimidin-4-ylamino]-4-dimethylamino-2-fluoro-*N*-methyl-benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-piperidinyl)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-{[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]oxy}benzenesulfonamide;
- 4-(dimethylamino)-3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(4-morpholinyl)benzenesulfonamide;

1-{6-[(3-fluorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide:

3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-(methylthio)benzenesulfonamide;

3-[(6-{[3-chloro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-[(6-{[3-chloro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl-4-(methyloxy)benzenesulfonamide;

*N*-methyl-4-(methyloxy)-3-({6-[(4-{[2-(methyloxy)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(4-{[2-(methyloxy)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-4-(methyloxy)-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide;

4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]- *N*-[2-(methyloxy)ethyl]benzamide;

*N*-methyl-4-(methyloxy)-3-[(6-{[4-(1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

N-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-{[6-({4-[(2,2,2-

trifluoroethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro-*N*-methylbenzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

1-{6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}-*N*,3,3-trimethyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

3-[6-(6-bromo-4-methyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-(2,2,2-trifluoro-ethoxy)-benzenesulfonamide;

3-({6-[(3,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-{[6-(3-biphenylylamino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide;

N-methyl-3-({6-[(4-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

 $3-(\{6-[(3-acetylphenyl)amino]-4-pyrimidinyl\}amino)-\textit{N}-methylbenzenesulfonamide;}\\$ 

N-methyl-3-[(6-{[3-(methyloxy)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)acetamide;

N-methyl-3-{[6-(phenylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

 $3-(\{6-[(4-chlorophenyl)amino]-4-pyrimidinyl\}amino)-\textit{N}-methylbenzenesulfonamide;$ 

N-methyl-3-[(6-{[3-(trifluoromethyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(2-methyl-1,2,3,4-tetrahydro-7-isoquinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-((6-[(2-fluorophenyl)amino]-4-pyrimidinyl)amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[3-(4-morpholinylsulfonyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

3-{[6-({3-[(ethylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(methylsulfonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[6-(1*H*-indazol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-phenylbenzamide;

3-{[6-({3-[(dimethylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

3-[(6-{[3-(aminosulfonyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-(1-methylethyl)benzenesulfonamide;

3-({6-[(4-acetylphenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(methylsulfonyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)acetamide;

N-(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-

pyrimidinyl]amino}phenyl)propanamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-phenylbenzamide;

3-({6-[(1,1-dioxido-2,3-dihydro-1,2-benzisothiazol-6-yl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1*H*-indol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-[6-(2-methyl-benzothiazol-5-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

N-methyl-3-({6-[(3-nitrophenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

N-methyl-3-[(6-{[4-(4-morpholinylcarbonyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

3-[6-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(methyloxy)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-[(6-{[4-(4-morpholinyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[4-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-[(6-{[4-(dimethylamino)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-[(6-{[3-(dimethylamino)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

methyl 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoate;

1-methylethyl 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoate;

3-({6-[(4-chloro-3-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(4-fluoro-3-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-{[6-(1*H*-indol-6-ylamino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({3-[(methylsulfonyl)amino]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-({6-[(3-methyl-1*H*-indazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(4-{[2-(diethylamino)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

1-methylethyl [(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)oxy]acetate;

3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

3-[6-(1*H*-indol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

3-{[6-(1,3-benzothiazol-5-ylamino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

3-({6-[(3-fluoro-4-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

3-[(6-{[3-fluoro-4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(methyloxy)-3-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-chloro-3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-[(6-{[3-fluoro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-methyl-3-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[4-chloro-3-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-(methylthio)-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzoic acid;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(diethylamino)-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(2,5-dimethyl-1-pyrrolidinyl)-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(2-methyl-1-pyrrolidinyl)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*,4-dimethylbenzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(isobutylthio)-*N*-methylbenzenesulfonamide;

4-(isobutylthio)-*N*-methyl-3-(6-(4-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

4-(isobutylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

3-{[6-({4-[(difluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-{[6-({4-[(trifluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

 $3-(\{6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl\}amino)-N-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;$ 

3-({6-[(4-cyanophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(ethylthio)-*N*-methylbenzenesulfonamide;

4-(ethylthio)-*N*-methyl-3-(6-(4-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

4-(ethylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(2,2,2-trifluoroethylthio)benzenesulfonamide;

*N*-methyl-4-(2,2,2-trifluoroethylthio)-3-(6-(4-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

- 3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(2,2,2-trifluoroethylthio)benzenesulfonamide;
- 4-fluoro-*N*-methyl-3-{[6-({4-[(trifluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;
- 3-{[6-({4-[(difluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-4-fluoro-*N*-methylbenzenesulfonamide;
- 4-chloro-*N*-methyl-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- 3-({6-[(4-cyanophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-(6-(1*H*-indazol-5-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-(6-(4-(cyanomethyl)phenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 4-(*tert*-butylsulfonyl)-3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1,1-dimethylethyl)oxy]benzenesulfonamide;
  - 3-({6-[(3-bromophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;
- 3-({6-[(3-bromo-4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-[6-(3,4-dimethoxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide;
- *N*-methyl-4-methylsulfanyl-3-[6-(3,4,5-trimethoxy-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;
- 3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide;
- 3-[6-(4-cyano-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide;

3-[6-(benzo[1,3]dioxol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

N-methyl-3-[6-(2-methyl-benzothiazol-5-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide;

3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

3-[6-(3,4-difluoro-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide:

*N*-methyl-4-methylsulfanyl-3-[6-(4-morpholin-4-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3-ethynyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamid;

3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamide;

3-(6-(3-methoxy-5-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

3-[6-(1*H*-indol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide:

*N*-methyl-4-methylsulfanyl-3-[6-(quinolin-6-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3-chloro-4-cyano-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-[6-(4-[1,2,4]triazol-4-ylmethyl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(1*H*-indazol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide:

3-[6-(1*H*-indol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-(methylthio)-3-(6-(4-(piperazin-1-yl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

*N*-methyl-3-(6-(4-methyl-2-oxo-1,2-dihydroquinolin-7-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide;

3-(6-(1-acetylindolin-6-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

*N*-methyl-3-[6-(2-methyl-4-oxo-4*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide;

3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide:

*N*-methyl-4-methylsulfanyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-[6-(3,4,5-trifluoro-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

*N*-methyl-3-[6-(4-methyl-2-oxo-2*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide;

3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide:

3-[6-(1*H*-indazol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-3-(6-(2-methyl-1,3-dioxoisoindolin-5-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide;

3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[6-(3,4,5-trimethoxy-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3-ethynyl-phenylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

3-[6-(benzo[1,3]dioxol-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-

benzenesulfonamide;

3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

3-[6-(3,4-difluoro-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide; *N*-methyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]benzenesulfonamide;

3-[6-(4-cyano-phenylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

*N*-methyl-3-[6-(2-methyl-4-oxo-4*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide:

*N*-methyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamide;

3-[6-(1*H*-indazol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

*N*-methyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[6-(4-methyl-2-oxo-2*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(1-acetyl-2,3-dihydro-1*H*-indol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide:

3-[6-(3-methoxy-5-trifluoromethyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[6-(4-methyl-2-oxo-1,2-dihydro-quinolin-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

*N*-methyl-3-[6-(3,4,5-trifluoro-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide:

3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide

3-[6-(4-chloro-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-(propane-2-sulfonyl)-benzenesulfonamide;

3-(6-(3-bromo-5-methylphenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-(6-(1*H*-indol-6-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-(6-(3-ethynylphenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl-*N*-methylbenzenesulfonamide;

3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl-*N*-methylbenzenesulfonamide;

4-methanesulfonyl-*N*-methyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

*N*-methyl-3-(6-(2-methylbenzo[d]thiazol-5-ylamino)pyrimidin-4-ylamino)-4-(methylsulfonyl)benzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-[(6-{[4-(1*H*-1,2,4-triazol-1-ylmethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[6-(1*H*-indol-5-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl-*N*-methylbenzenesulfonamide;

4-methanesulfonyl-*N*-methyl-3-[6-(2-methyl-4-oxo-4*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

5-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-2-fluoro-*N*-methylbenzenesulfonamide;

5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro-*N*-methyl-4-(1,1,1-trifluoropropan-2-yloxy)benzenesulfonamide;

1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

3-[(6-{[3,4-bis(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(3,4-dichlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(3,4-dimethylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[3-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-[(6-{[3-(ethyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(4-fluorophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[3-(1-pyrrolidinyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[3-(4-methyl-1-piperazinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3,5-dichlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1*H*-indol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1,3-benzoxazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1*H*-benzimidazol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(3-bromo-5-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(3,5-dimethylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({4-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-[(6-{[3-(1-pyrrolidinylmethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(4-{[2-(4-morpholinyl)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(4-{[2-(dimethylamino)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({3-[(4-methyl-1-piperazinyl)methyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-{[6-({4-[(1-methylethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-{[6-({4-[(difluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(2-oxo-1-pyrrolidinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[3-chloro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(4-cyclopropylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[4-(3,5-dimethyl-1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-[(6-{[4-chloro-3-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(2-thienyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(2-methyl-1*H*-imidazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-[(6-{[4-(1-methylpropyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-{[6-(6-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-{[6-({4-[(trifluoromethyl)thio]phenyl}amino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(4-bromophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(methylthio)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-{[6-({4-[(trifluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(dimethylamino)-*N*-methylbenzenesulfonamide;

4-(dimethylamino)-*N*-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-1-(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)-2,3-dihydro-1*H*-indole-6-sulfonamide;

1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-1*H*-benzimidazole-6-sulfonamide;

 $3-(\{6-[(5-bromo-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl\}amino)-N-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;$ 

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(4-morpholinyl)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[ethyl(methyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-hydroxy-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2R)-2-(trifluoromethyl)-1-pyrrolidinyl]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-pyrrolidinyl)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1,3-oxazol-5-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)-4-(4-morpholinyl)benzenesulfonamide;

*N*-methyl-4-(methyloxy)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-(methylthio)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

1-{6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

*N*-methyl-3-{[6-({4-[(2,2,2-trifluoroethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide;

 $3-(\{6-[(3,4-\text{difluorophenyl})amino]-4-pyrimidinyl\}amino)-\textit{N}-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide;}$ 

N-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-{[6-(3-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-({6-[(5-methyl-3-pyridinyl)amino]-4-

pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-5-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-pyridinesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

N-methyl-3-{[6-(1,3-thiazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-({6-[(5-methyl-1,3-thiazol-2-yl)amino]-4-

pyrimidinyl}amino)benzenesulfonamide;

N-methyl-3-{[6-(1,3,4-thiadiazol-2-ylamino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-{[6-(3-isoquinolinylamino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide;

N-methyl-3-{[6-(2-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-{[6-(1,3-oxazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-[(6-{[4-(trifluoromethyl)-1,3-thiazol-2-yl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

methyl (2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazol-4-yl)acetate;

*N*-methyl-3-[(6-{[4-(1-methylethyl)-1,3-thiazol-2-yl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-({6-[(4-methyl-1,3-oxazol-2-yl)amino]-4-

pyrimidinyl}amino)benzenesulfonamide;

N-methyl-4-(methyloxy)-3-{[6-(2-pyridinylamino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

1-{6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-3-{[6-(4-pyrimidinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[6-(trifluoromethyl)-3-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(5-chloro-4-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(4,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-(6-(5-isopropylpyridin-2-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(2,2,2-trifluoroethoxy)benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-4-fluoro-*N*-methylbenzenesulfonamide;

4-fluoro-*N*-methyl-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

4-chloro-3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-{[6-(6-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

4-(*tert*-butylsulfonyl)-*N*-methyl-3-(6-(5-(trifluoromethyl)pyridin-2-ylamino)pyrimidin-4-ylamino)benzenesulfonamide;

4-(*tert*-butylsulfonyl)-3-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

*N*-methyl-4-(propane-2-sulfonyl)-3-[6-(5-trifluoromethyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

- 3-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-(propane-2-sulfonyl)-benzenesulfonamide;
- 3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide;
- 1-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-yl]-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid methylamide:
- 5-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)-2-fluoro-*N*-methyl-4-(1,1,1-trifluoropropan-2-yloxy)benzenesulfonamide;
- 5-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]-2-fluoro-4-methanesulfonyl-*N*-methyl-benzenesulfonamide;
- 5-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;
- 2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-5-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- 3-({6-[(5-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;
- 3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-4-(ethylsulfonyl)-*N*-methylbenzenesulfonamide;
- 4-(ethylsulfonyl)-*N*-methyl-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- 3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;
- 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylic acid;
- (2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazol-4-yl)acetic acid ;
  - 1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-N-methyl-1H-indole-6-sulfonamide;
- 3-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2-oxo-2,3-dihydro-1*H*-benzimidazole-5-sulfonamide;

3-{[6-({3-[6-(dimethylamino)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(5-methyl-3-biphenylyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-[(6-{[3-methyl-5-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[3'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-benzenesulfonamide;

*N*-methyl-3-{[6-({3-[6-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-4-biphenylcarboxamide;

*N*-methyl-3-{[6-({3-[5-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylcarboxamide;

*N*-methyl-3-{[6-({3'-[(methylsulfonyl)amino]-3-biphenylyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-[(6-{[4'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({3-[4-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

N-(3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-4-biphenylyl)acetamide;

*N*-methyl-3-{[6-({4'-[(methylsulfonyl)amino]-3-biphenylyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

N-(3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylyl)acetamide;

*N*-methyl-3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-4-biphenylsulfonamide;

*N*-methyl-3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylsulfonamide;

3-[(6-{[4-chloro-3-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

2'-chloro-5'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylcarboxamide;

3-[(6-{[6-chloro-3'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid;

[(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-

pyrimidinyl]amino}phenyl)oxy]acetic acid;

*N,N*-dimethyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*,*N*-dimethyl-2-[(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)oxy]acetamide;

*N*-(2-hydroxyethyl)-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*-methyl-3-{[6-({4-[(4-methyl-1-piperazinyl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-(1-methyl-4-piperidinyl)benzamide;

*N*-methyl-3-[(6-{[4-(1-piperazinylcarbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-({4-[2-(methyloxy)ethyl]-1-piperazinyl}carbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-[2-(methyloxy)ethyl]benzamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-[3-(methyloxy)propyl]benzamide;

*N*-[2-(dimethylamino)ethyl]-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N,N*-diethyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*-methyl-3-[(6-{[4-(1-pyrrolidinylcarbonyl)phenyl]amino}-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-{[(3S)-3-(dimethylamino)-1-pyrrolidinyl]carbonyl}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({4-[(4-methylhexahydro-1*H*-1,4-diazepin-1-yl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(4-thiomorpholinylcarbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-{[6-({4-[(4,4-difluoro-1-piperidinyl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

3-({6-[(4-{[(3R)-3-(dimethylamino)-1-pyrrolidinyl]carbonyl}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-[2-(dimethylamino)ethyl]-*N*-methyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*-[2-(dimethylamino)ethyl]-*N*-methyl-4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzamide;

*N*-[(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)carbonyl]glycine;

*N*-methyl-3-[(6-{[3-(6-oxo-1,6-dihydro-3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3-hydroxyphenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(isobutylsulfonyl)-*N*-methylbenzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(ethylsulfonyl)-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide; and

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

Representative compounds of this invention include the compounds of Examples 1-380.

The compounds according to Formula I may contain one or more asymmetric centers (also referred to as a chiral center) and may, therefore, exist as individual enantiomers, diastereomers, or other stereoisomeric forms, or as mixtures thereof. Chiral centers, such as chiral carbon atoms, may also be present in a substituent such as an alkyl group. Where the stereochemistry of a chiral center present in Formula I, or in any chemical structure illustrated herein, is not specified the structure is intended to encompass all individual stereoisomers and all mixtures thereof. Thus, compounds according to Formula I containing one or more chiral center may be used as racemic mixtures, enantiomerically enriched mixtures, or as enantiomerically pure individual stereoisomers.

Individual stereoisomers of a compound according to Formula I which contain one or more asymmetric centers may be resolved by methods known to those skilled in the art. For example, such resolution may be carried out (1) by formation of diastereoisomeric salts, complexes or other derivatives; (2) by selective reaction with a stereoisomer-specific reagent, for example by enzymatic oxidation or reduction; or (3) by gas-liquid or liquid chromatography in a chiral environment, for example, on a chiral support such as silica with a bound chiral ligand or in the presence of a chiral solvent. The skilled artisan will appreciate that where the desired stereoisomer is converted into another chemical entity by one of the separation procedures described above, a further step is required to liberate the desired form. Alternatively, specific stereoisomers may be synthesized by asymmetric synthesis using optically active reagents, substrates, catalysts or solvents, or by converting one enantiomer to the other by asymmetric transformation.

When a disclosed compound or its salt is named or depicted by structure, it is to be understood that the compound or salt, including solvates (particularly, hydrates) thereof, may exist in crystalline forms, non-crystalline forms or a mixture thereof. The compound or salt, or solvates (particularly, hydrates) thereof, may also exhibit polymorphism (i.e. the capacity to occur in different crystalline forms). These different crystalline forms are typically known as "polymorphs." It is to be understood that when named or depicted by structure, the disclosed compound, or solvates (particularly, hydrates) thereof, also include all polymorphs thereof. Polymorphs have the same chemical composition but differ in packing, geometrical arrangement, and other descriptive properties of the crystalline solid state. Polymorphs, therefore, may have different physical properties such as shape, density, hardness, deformability, stability, and dissolution properties. Polymorphs typically exhibit different melting points, IR spectra, and X-ray powder diffraction patterns, which may be used for identification. One of ordinary skill in the art will appreciate that different polymorphs may be produced, for

example, by changing or adjusting the conditions used in crystallizing/recrystallizing the compound.

For solvates of the compounds of the invention, or salts thereof, that are in crystalline form, the skilled artisan will appreciate that pharmaceutically-acceptable solvates may be formed wherein solvent molecules are incorporated into the crystalline lattice during crystallization. Solvates may involve nonaqueous solvents such as ethanol, isopropanol, DMSO, acetic acid, ethanolamine, and ethyl acetate, or they may involve water as the solvent that is incorporated into the crystalline lattice. Solvates wherein water is the solvent that is incorporated into the crystalline lattice are typically referred to as "hydrates." Hydrates include stoichiometric hydrates as well as compositions containing variable amounts of water. The invention includes all such solvates.

Because of their potential use in medicine, the salts of the compounds of Formula I are preferably pharmaceutically acceptable. The compounds of this invention are bases, wherein a desired salt form may be prepared by any suitable method known in the art, including treatment of the free base with an inorganic acid, such as hydrochloric acid, hydrobromic acid, sulfuric acid, nitric acid, phosphoric acid, and the like, or with an organic acid, such as acetic acid, trifluoroacetic acid, maleic acid, succinic acid, mandelic acid, fumaric acid, malonic acid, pyruvic acid, oxalic acid, glycolic acid, salicylic acid, pyranosidyl acid, such as glucuronic acid or galacturonic acid, alpha-hydroxy acid, such as citric acid or tartaric acid, amino acid, such as aspartic acid or glutamic acid, aromatic acid, such as benzoic acid or cinnamic acid, sulfonic acid, such as p-toluenesulfonic acid, methanesulfonic acid, ethanesulfonic acid or the like. Examples of pharmaceutically acceptable salts include sulfates, pyrosulfates, bisulfates, sulfites, bisulfites, phosphates, chlorides, bromides, iodides, acetates, propionates, decanoates, caprylates, acrylates, formates, isobutyrates, caproates, heptanoates, propiolates, oxalates, malonates succinates, suberates, sebacates, fumarates, maleates, butyne-1,4-dioates, hexyne-1,6dioates, benzoates, chlorobenzoates, methylbenzoates, dinitrobenzoates, hydroxybenzoates, methoxybenzoates, phthalates, phenylacetates, phenylpropionates, phenylbutrates, citrates, lactates, γ-hydroxybutyrates, glycolates, tartrates mandelates, and sulfonates, such as xylenesulfonates, methanesulfonates, propanesulfonates, naphthalene-1-sulfonates and naphthalene-2-sulfonates.

Salts of the disclosed compounds containing a carboxylic acid or other acidic functional group can be prepared by reacting with a suitable base. Such a pharmaceutically acceptable salt may be made with a base which affords a pharmaceutically acceptable cation, which includes alkali metal salts (especially sodium and potassium), alkaline earth metal salts (especially calcium and magnesium), aluminum

salts and ammonium salts, as well as salts made from physiologically acceptable organic bases such as trimethylamine, triethylamine, morpholine, pyridine, piperidine, picoline, dicyclohexylamine, *N*,*N*'-dibenzylethylenediamine, 2-hydroxyethylamine, *bis*-(2-hydroxyethyl)amine, tri-(2-hydroxyethyl)amine, procaine, dibenzylpiperidine, dehydroabietylamine, *N*,*N*'-bisdehydroabietylamine, glucamine, *N*-methylglucamine, collidine, quinine, quinoline, and basic amino acid such as lysine and arginine.

If an inventive basic compound is isolated as a salt, the corresponding free base form of that compound may be prepared by any suitable method known to the art, including treatment of the salt with an inorganic or organic base, suitably an inorganic or organic base having a higher pK<sub>a</sub> than the free base form of the compound. Similarly, if a disclosed compound containing a carboxylic acid or other acidic functional group is isolated as a salt, the corresponding free acid form of that compound may be prepared by any suitable method known to the art, including treatment of the salt with an inorganic or organic acid, suitably an inorganic or organic acid having a lower pK<sub>a</sub> than the free acid form of the compound.

# General Methods of Preparation

The compounds of Formula I may be obtained by using synthetic procedures illustrated in the Schemes below or by drawing on the knowledge of a skilled organic chemist. The synthesis provided in these Schemes are applicable for producing compounds of the invention having a variety of different R<sup>1</sup>, R<sup>2</sup>, R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup> and R<sup>8</sup> groups employing appropriate precursors, which are suitably protected if needed, to achieve compatibility with the reactions outlined herein. Subsequent deprotection, where needed, affords compounds of the nature generally disclosed. While the Schemes are shown with compounds only of Formula I, they are illustrative of processes that may be used to make the compounds of the invention.

Compound names were generated using the software naming program ACD/Name Pro V6.02 available from Advanced Chemistry Development, Inc., 110 Yonge Street, 14<sup>th</sup> Floor, Toronto, Ontario, Canada, M5C 1T4 (http://www.acdlabs.com/).

As shown in Scheme 1, the compounds of Formula I can be prepared under a variety of conditions by sequential reaction of an R<sup>6</sup>-amine and an aryl amine (e.g., Ar-NH-R<sup>5</sup>) with an activated pyrimidine. The order of the synthetic steps may be varied to arrive at the targeted compound. Additional synthetic manipulation of the functionality present in the amine moieties, as shown in Schemes 2-6, allows for further analog generation.

# Scheme 1

a) R<sup>6</sup>-NH<sub>2</sub>, HCI, isopropanol or NMP, 150 °C,  $\mu$ w b) R<sup>6</sup>-NH<sub>2</sub>, HCI, isopropanol or isoamylalcohol, reflux c) R<sup>6</sup>-NH<sub>2</sub>, Pd<sub>2</sub>(dba)<sub>3</sub>, Xantphos, K<sub>3</sub>PO<sub>4</sub> or K<sub>2</sub>CO<sub>3</sub>, 1,4-dioxane,  $\mu$ w, 150 °C d) R<sup>6</sup>-NH<sub>2</sub>, Pd(OAc)<sub>2</sub>, BINAP, Cs<sub>2</sub>CO<sub>3</sub>, 1,4-dioxane,  $\mu$ w, 150 °C e) Ar-NH-R<sup>5</sup>, HCI, isopropanol, *t*-BuOH or NMP,  $\mu$ w, 150 °C; f) Ar-NH-R<sup>5</sup>, AgOTf, 1,4-dioxane or NMP,  $\mu$ w, 120-180 °C; g) Ar-NH-R<sup>5</sup>, HCI or *p*-TsOH, isopropanol or *t*-BuOH, reflux. h) Ar-NH-R<sup>5</sup>, K<sub>2</sub>CO<sub>3</sub>, THF,  $\mu$ w, 150 °C.

# Scheme 2

a) Ar-B(OH)<sub>2</sub> or ArB(OR')<sub>2</sub>, Pd(Ph<sub>3</sub>)<sub>4</sub>, K<sub>3</sub>PO<sub>4</sub>, DMF, H<sub>2</sub>O,  $\mu$ w, 150 °C.

# Scheme 3

a) HCl, toluene, 145 °C.

# Scheme 4

a) BBr<sub>3</sub>, CH<sub>2</sub>Cl<sub>2</sub>, RT

#### Scheme 5

a)  $NH_2$ -X- $CO_2R$ , HCI, isopropanol,  $\mu$ w, 150 °C; then NaOH, THF, MeOH, rt or LiOH/ $H_2O$ , MeOH, rt; b)  $NHR^7R^8$ , EDC, HOBT, *i*-Pr<sub>2</sub>NEt, THF, reflux.

#### Scheme 6

a) TPAP, NMO, 40 °C; b) NaBO<sub>3</sub>.4H<sub>2</sub>O, AcOH, 50 °C

The invention also includes various deuterated forms of the compounds of Formula I. Each available hydrogen atom attached to a carbon atom may be independently replaced with a deuterium atom. A person of ordinary skill in the art will know how to synthesize deuterated forms of the compounds of Formula I. For example, deuterated alkyl group amines may be prepared by conventional techniques (see for example: methyl- $d_3$ -amine available from Aldrich Chemical Co., Milwaukee, WI, Cat. No.489,689-2). Employing such compounds according to Schemes 1-3 will allow for the preparation of compounds of Formula I in which various hydrogen atoms are replaced with a deuterium atom.

#### Methods of Use

The present invention is directed to a method of inhibiting TNNI3K which comprises contacting the kinase with a compound of Formula I or a salt thereof, particularly a pharmaceutically acceptable salt thereof. This invention is also directed to a method of treatment of a TNNI3K-mediated disease or disorder comprising administering an effective amount of the compound of Formula I or a salt thereof, particularly a pharmaceutically acceptable salt thereof, to a patient, specifically a human, in need

thereof. As used herein, "patient" refers to a human or other mammal. Specifically, this invention is directed to a method of inhibiting TNNI3K activity, comprising contacting the kinase with an effective amount of a compound of Formula I or a pharmaceutically acceptable salt thereof. For example, TNNI3K activity may be inhibited in mammalian cardiac tissue by administering to a patient in need thereof, an effective amount a compound of Formula I or a pharmaceutically acceptable salt thereof.

The compounds of this invention may be particularly useful for treatment of TNNI3K-mediated diseases or disorders, specifically by inhibition of TNNI3K activity, where such diseases or disorders are selected from heart failure, particularly congestive heart failure; cardiac hypertrophy; and heart failure or congestive heart failure resulting from cardiac hypertrophy. The compounds of this invention may also be useful for the treatment of heart failure or congestive heart failure resulting from myocardial ischemia or myocardial infarction.

A therapeutically "effective amount" is intended to mean that amount of a compound that, when administered to a patient in need of such treatment, is sufficient to effect treatment, as defined herein. Thus, e.g., a therapeutically effective amount of a compound of Formula I, or a pharmaceutically acceptable salt thereof, is a quantity of an inventive agent that, when administered to a human in need thereof, is sufficient to modulate or inhibit the activity of TNNI3K such that a disease condition which is mediated by that activity is reduced, alleviated or prevented. The amount of a given compound that will correspond to such an amount will vary depending upon factors such as the particular compound (e.g., the potency (pXC<sub>50</sub>), efficacy (EC<sub>50</sub>), and the biological half-life of the particular compound), disease condition and its severity, the identity (e.g., age, size and weight) of the patient in need of treatment, but can nevertheless be routinely determined by one skilled in the art. Likewise, the duration of treatment and the time period of administration (time period between dosages and the timing of the dosages, e.g., before/with/after meals) of the compound will vary according to the identity of the mammal in need of treatment (e.g., weight), the particular compound and its properties (e.g., pharmaceutical characteristics), disease or condition and its severity and the specific composition and method being used, but can nevertheless be determined by one of skill in the art.

"Treating" or "treatment" is intended to mean at least the mitigation of a disease condition in a patient, where the disease condition is caused or mediated by TNNI3K. The methods of treatment for mitigation of a disease condition include the use of the compounds in this invention in any conventionally acceptable manner, for example for prevention, retardation, prophylaxis, therapy or cure of a disease. The compounds of

Formula I of this invention may be useful for the treatment of heart failure, particularly congestive heart failure. The compounds of Formula I of this invention may be useful for the treatment of cardiac hypertrophy, and heart failure or congestive heart failure resulting from cardiac hypertrophy, myocardial ischemia or myocardial infarction.

The compounds of the invention may be administered by any suitable route of administration, including both systemic administration and topical administration. Systemic administration includes oral administration, parenteral administration, transdermal administration, rectal administration, and administration by inhalation. Parenteral administration refers to routes of administration other than enteral, transdermal, or by inhalation, and is typically by injection or infusion. Parenteral administration includes intravenous, intramuscular, and subcutaneous injection or infusion. Inhalation refers to administration into the patient's lungs whether inhaled through the mouth or through the nasal passages. Topical administration includes application to the skin.

The compounds of the invention may be administered once or according to a dosing regimen wherein a number of doses are administered at varying intervals of time for a given period of time. For example, doses may be administered one, two, three, or four times per day. Doses may be administered until the desired therapeutic effect is achieved or indefinitely to maintain the desired therapeutic effect. Suitable dosing regimens for a compound of the invention depend on the pharmacokinetic properties of that compound, such as absorption, distribution, and half-life, which can be determined by the skilled artisan. In addition, suitable dosing regimens, including the duration such regimens are administered, for a compound of the invention depend on the condition being treated, the severity of the condition being treated, the age and physical condition of the patient being treated, the medical history of the patient to be treated, the nature of concurrent therapy, the desired therapeutic effect, and like factors within the knowledge and expertise of the skilled artisan. It will be further understood by such skilled artisans that suitable dosing regimens may require adjustment given an individual patient's response to the dosing regimen or over time as individual patient needs change.

Treatment of TNNI3K-mediated disease conditions may be achieved using the compounds of this invention as a monotherapy, or in dual or multiple combination therapy, such as in combination with other cardiovascular agents, for example, in combination with one or more of the following agents: a beta-blocker, an ACE inhibitor, an angiotensin receptor blocker (ARB), a calcium channel blocker, a diuretic, a renin inhibitor, a centrally acting antihypertensive, a dual ACE/NEP inhibitor, an aldosterone synthase inhibitor, and

an aldosterone-receptor antagonist, which are administered in effective amounts as is known in the art.

Examples of suitable beta blockers include timolol (such as BLOCARDEN<sup>TM</sup>), carteolol (such as CARTROL<sup>™</sup>), carvedilol (such as COREG<sup>™</sup>), nadolol (such as CORGARD<sup>TM</sup>), propanolol (such as INNOPRAN XL<sup>TM</sup>), betaxolol (such as KERLONE<sup>TM</sup>), penbutolol (such as LEVATOL<sup>TM</sup>), metoprolol (such as LOPRESSOR<sup>TM</sup> and TOPROL-XL<sup>TM</sup>), atenolol (such as TENORMIN<sup>TM</sup>), pindolol (such as VISKEN<sup>TM</sup>), bisoprolol, bucindolol, esmolol, acebutolol, labetalol, nebivolol, celiprolol, sotalol, and oxprenolol. Examples of suitable ACE inhibitors include alacepril, benazepril, benazaprilat, captopril, ceronapril, cilazapril, delapril, enalapril, enalaprilat, fosinopril, lisinopril, moexipiril, moveltopril, perindopril, quinapril, quinaprilat, ramipril, ramiprilat, spirapril, temocapril, trandolapril, and zofenopril. Preferred ACE inhibitors are benazepril, enalpril, lisinopril, and ramipril. Examples of suitable angiotensin receptor blockers include candesartan, eprosartan, irbesartan, losartan, olmesartan, tasosartan, telmisartan, and valsartan. Examples of suitable calcium channel blockers include dihydropyridines (DHPs) and non-DHPs. Suitable DHPs include amlodipine, felodipine, ryosidine, isradipine, lacidipine, nicardipine, nifedipine, nigulpidine, niludipine, nimodiphine, nisoldipine, nitrendipine, and nivaldipine, and their pharmaceutically acceptable salts. Suitable non-DHPs are flunarizine, prenylamine, diltiazem, fendiline, gallopamil, mibefradil, anipamil, tiapamil, and verampimil, and their pharmaceutically acceptable salts. A suitable diuretic is a thiazide derivative selected from amiloride, chlorothiazide, hydrochlorothiazide, methylchlorothiazide, and chlorothalidon. A suitable renin inhibitor is aliskiren. Examples of suitable centrally acting antiphypertensives include clonidine, guanabenz, guanfacine and methyldopa. Examples of suitable dual ACE/NEP inhibitors include omapatrilat, fasidotril, and fasidotrilat. Examples of suitable aldosterone synthase inhibitors include anastrozole, fadrozole, and exemestane. Examples of suitable aldosterone-receptor antagonists include spironolactone and eplerenone.

The invention further includes the use of compounds of the invention as an active therapeutic substance, in particular in the treatment of diseases mediated by TNNI3K. Specifically, the invention includes the use of compounds of the invention in the treatment of heart failure, particularly congestive heart failure; cardiac hypertrophy; heart failure or congestive heart failure resulting from cardiac hypertrophy; and heart failure or congestive heart failure resulting from myocardial ischemia or myocardial infarction.

In another aspect, the invention includes the use of compounds of the invention in the manufacture of a medicament for use in the treatment of the above disorders.

# Compositions

The compounds of the invention will normally, but not necessarily, be formulated into a pharmaceutical composition prior to administration to a patient. Accordingly, in another aspect the invention is directed to pharmaceutical compositions comprising a compound of the invention and a pharmaceutically-acceptable excipient.

The pharmaceutical compositions of the invention may be prepared and packaged in bulk form wherein an effective amount of a compound of the invention can be extracted and then given to the patient such as with powders, syrups, and solutions for injection. Alternatively, the pharmaceutical compositions of the invention may be prepared and packaged in unit dosage form. For oral application, for example, one or more tablets or capsules may be administered. A dose of the pharmaceutical composition contains at least a therapeutically effective amount of a compound of this invention (i.e., a compound of Formula I or a salt, particularly a pharmaceutically acceptable salt, thereof). When prepared in unit dosage form, the pharmaceutical compositions may contain from 1 mg to 1000 mg of a compound of this invention.

The pharmaceutical compositions of the invention typically contain one compound of the invention. However, in certain embodiments, the pharmaceutical compositions of the invention contain more than one compound of the invention. In addition, the pharmaceutical compositions of the invention may optionally further comprise one or more additional pharmaceutically active compounds.

As used herein, "pharmaceutically-acceptable excipient" means a material, composition or vehicle involved in giving form or consistency to the composition. Each excipient must be compatible with the other ingredients of the pharmaceutical composition when commingled such that interactions which would substantially reduce the efficacy of the compound of the invention when administered to a patient and interactions which would result in pharmaceutical compositions that are not pharmaceutically-acceptable are avoided. In addition, each excipient must of course be of sufficiently high purity to render it pharmaceutically-acceptable.

The compounds of the invention and the pharmaceutically-acceptable excipient or excipients will typically be formulated into a dosage form adapted for administration to the patient by the desired route of administration. Conventional dosage forms include those adapted for (1) oral administration such as tablets, capsules, caplets, pills, troches, powders, syrups, elixirs, suspensions, solutions, emulsions, sachets, and cachets; (2) parenteral administration such as sterile solutions, suspensions, and powders for reconstitution; (3) transdermal administration such as transdermal patches; (4) rectal

administration such as suppositories; (5) inhalation such as aerosols and solutions; and (6) topical administration such as creams, ointments, lotions, solutions, pastes, sprays, foams, and gels.

Suitable pharmaceutically-acceptable excipients will vary depending upon the particular dosage form chosen. In addition, suitable pharmaceutically-acceptable excipients may be chosen for a particular function that they may serve in the composition. For example, certain pharmaceutically-acceptable excipients may be chosen for their ability to facilitate the production of uniform dosage forms. Certain pharmaceutically-acceptable excipients may be chosen for their ability to facilitate the production of stable dosage forms. Certain pharmaceutically-acceptable excipients may be chosen for their ability to facilitate the carrying or transporting the compound or compounds of the invention once administered to the patient from one organ, or portion of the body, to another organ, or portion of the body. Certain pharmaceutically-acceptable excipients may be chosen for their ability to enhance patient compliance.

Suitable pharmaceutically-acceptable excipients include the following types of excipients: diluents, fillers, binders, disintegrants, lubricants, glidants, granulating agents, coating agents, wetting agents, solvents, co-solvents, suspending agents, emulsifiers, sweeteners, flavoring agents, flavor masking agents, coloring agents, anti-caking agents, humectants, chelating agents, plasticizers, viscosity increasing agents, antioxidants, preservatives, stabilizers, surfactants, and buffering agents. The skilled artisan will appreciate that certain pharmaceutically-acceptable excipients may serve more than one function and may serve alternative functions depending on how much of the excipient is present in the formulation and what other ingredients are present in the formulation.

Skilled artisans possess the knowledge and skill in the art to enable them to select suitable pharmaceutically-acceptable excipients in appropriate amounts for use in the invention. In addition, there are a number of resources that are available to the skilled artisan which describe pharmaceutically-acceptable excipients and may be useful in selecting suitable pharmaceutically-acceptable excipients. Examples include Remington's Pharmaceutical Sciences (Mack Publishing Company), The Handbook of Pharmaceutical Additives (Gower Publishing Limited), and The Handbook of Pharmaceutical Excipients (the American Pharmaceutical Association and the Pharmaceutical Press).

The pharmaceutical compositions of the invention are prepared using techniques and methods known to those skilled in the art. Some of the methods commonly used in the art are described in <a href="Remington's Pharmaceutical Sciences">Remington's Pharmaceutical Sciences</a> (Mack Publishing Company).

In one aspect, the invention is directed to a solid oral dosage form such as a tablet or capsule comprising an effective amount of a compound of the invention and a diluent or filler. Suitable diluents and fillers include lactose, sucrose, dextrose, mannitol, sorbitol, starch (e.g. corn starch, potato starch, and pre-gelatinized starch), cellulose and its derivatives (e.g. microcrystalline cellulose), calcium sulfate, and dibasic calcium phosphate. The oral solid dosage form may further comprise a binder. Suitable binders include starch (e.g. corn starch, potato starch, and pre-gelatinized starch), gelatin, acacia, sodium alginate, alginic acid, tragacanth, guar gum, povidone, and cellulose and its derivatives (e.g. microcrystalline cellulose). The oral solid dosage form may further comprise a disintegrant. Suitable disintegrants include crospovidone, sodium starch glycolate, croscarmelose, alginic acid, and sodium carboxymethyl cellulose. The oral solid dosage form may further comprise a lubricant. Suitable lubricants include stearic acid, magnesium stearate, calcium stearate, and talc.

#### **EXAMPLES**

The following examples illustrate the invention. These examples are not intended to limit the scope of the present invention, but rather to provide guidance to the skilled artisan to prepare and use the compounds, compositions, and methods of the present invention. While particular embodiments of the present invention are described, the skilled artisan will appreciate that various changes and modifications can be made without departing from the spirit and scope of the invention.

In the following experimental descriptions, the following abbreviations may be used:

Abbreviation	Meaning
AcOH	acetic acid
AgOTf	silver trifluoromethanesulfonate
aq.	aqueous
BINAP	(R)-(+)-(1,1'-binaphthalene-2,2'-diyl)bis(diphenylphosphine)
brine	saturated aqueous sodium chloride
СНО	formaldehyde
CH <sub>2</sub> Cl <sub>2</sub>	methylene chloride
CH <sub>3</sub> CN	acetonitrile
CH <sub>3</sub> NH <sub>2</sub>	methylamine
CH <sub>3</sub> NH <sub>2</sub> •HCl	methylamine hydrochloride
CH₃SNa	sodium methyl mercaptide
CuCl	copper(1) chloride

DDQ	2,3-dichloro-5,6-dicyanobenzoquinone
DMF	N,N-dimethylformamide
DMSO	dimethylsulfoxide
dppf	1,1'-bis(diphenylphosphino)ferrocene
EDC	1-[3-(dimethylamino)propyl]-3-ethylcarbodiimide hydrochloride
Et <sub>3</sub> N	triethylamine
Et <sub>2</sub> O	diethyl ether
EtOAc	ethyl acetate
h	hour(s)
HCI	hydrochloric acid
HCO₂H	formic acid
HOBt	1-hydroxybenzotriazole
H <sub>2</sub> SO <sub>4</sub> •SO <sub>3</sub>	fuming sulfuric acid
i-Pr <sub>2</sub> NEt	N,N-diisopropylethylamine
KOAc	potassium acetate
K <sub>3</sub> PO <sub>4</sub>	potassium phosphate tribasic
LCMS	liquid chromatography-mass spectroscopy
LiOH	lithium hydroxide
MeOH	methanol
MgSO <sub>4</sub>	magnesium sulfate
min	minute(s)
MS	mass spectrum
μw	microwave
NaH	sodium hydride
NaHCO <sub>3</sub>	sodium bicarbonate
NaOH	sodium hydroxide
Na <sub>2</sub> SO <sub>4</sub>	sodium sulfate
NH <sub>4</sub> Cl	ammonium chloride
HCO <sub>2</sub> •NH <sub>4</sub>	ammonium formate
NH <sub>4</sub> OH	ammonium hydroxide
NMO	4-methylmorpholine N-oxide
NMP	N-methyl-2-pyrrolidone
Pd/C	palladium on carbon
Pd <sub>2</sub> (dba) <sub>3</sub>	tris(dibenzylideneacetone)dipalladium(0)
Pd(dppf)Cl <sub>2</sub>	[1,1'-bis(diphenylphosphino)ferrocene] dichloropalladium(II)
Pd(Ph <sub>3</sub> ) <sub>4</sub>	tetrakis(triphenylphosphine)palladium(0)
Ph	phenyl
POCI <sub>3</sub>	phosphoryl chloride
rt	room temperature
satd.	saturated
SCX	strong cation exchange
TBAB	tetrabutyl ammonium bromide

TFA	trifluoroacetic acid
THF	tetrahydrofuran
TPAP	tetrapropylammonium perruthenate
t <sub>R</sub>	retention time

# PREPARATION 1

N-methyl-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzenesulfonamide

A mixture of 3-bromo-*N*-methylbenzenesulfonamide (2.3 g, 9.0 mmol), *bis*(pinacolato)diboron (2.5 g, 10.0 mmol), Pd(dppf)Cl<sub>2</sub> (0.725 g, 0.9 mmol), KOAc (2.6 g, 27 mmol), and dppf (0.700 g, 1.26 mmol) in 1,4-dioxane was heated to 80 °C and stirred overnight under nitrogen. In the morning, the reaction mixture was filtered and concentrated *in vacuo*. The crude product was then purified *via* flash column chromatography (4:1 petroleum ether/EtOAc) to give *N*-methyl-3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzenesulfonamide as a white solid (1.7 g, 65%).

# **PREPARATION 2**

3-amino-4-fluoro-N-methylbenzenesulfonamide

#### Step 1. 4-fluoro-3-nitrobenzenesulfonyl chloride

1-Fluoro-2-nitrobenzene (50.0 g, 0.354 mol) was added to chlorosulfonic acid (91 g, 0.778 mol) at 65 °C. The resulting mixture was then heated to 100 °C for 18 h. The mixture was cooled to rt, poured over ice and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The combined organic layers were then washed with NaHCO<sub>3</sub>, then brine, dried over MgSO<sub>4</sub>, filtered and concentrated *in vacuo* to afford 4-fluoro-3-nitrobenzenesulfonyl chloride (55.3 g, 65%) as a brown oil.

#### Step 2. 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide

To a solution of 4-fluoro-3-nitrobenzenesulfonyl chloride (43 g, 179.5 mmol) in THF (500 mL), was added Et<sub>3</sub>N (150 mL, 1.08 mol). The mixture was cooled to -35 °C and CH<sub>3</sub>NH<sub>2</sub>•HCl (14.5 g, 215.4 mmol) in water was added dropwise. After 1 h, the mixture was warmed to rt and diluted with 1:1 water/EtOAc. The organic layer was separated and washed with satd. aq. NaHCO<sub>3</sub>, then brine, dried over MgSO<sub>4</sub>, filtered and concentrated *in vacuo*. The crude residue was purified *via* flash column chromatography (20% EtOAc/petroleum ether) to give 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide (38 g, 90%) as a yellow solid.

# Step 3. 3-amino-4-fluoro-N-methylbenzenesulfonamide

To a mixture of 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide (1.6 g, 6.83 mmol) in THF (50 mL) under nitrogen, Pd/C (0.600 g) was added. The flask was then evacuated and recharged with hydrogen. The resulting mixture was allowed to stir under a hydrogen atmosphere overnight at 50 °C. The mixture was then filtered and concentrated to afford 3-amino-4-fluoro-*N*-methylbenzenesulfonamide (1.25 g, 89%) as an off-white solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  7.26 (q, J = 4.85 Hz, 1H), 7.13 - 7.22 (m, 2H), 6.90 (ddd, J = 2.38, 4.27, 8.41 Hz, 1H), 5.63 (s, 2H), 2.40 (d, J = 5.02 Hz, 3H); MS (m/z) 205.1 (M+H)<sup>†</sup>.

#### PREPARATION 3

3-amino-N-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide

# Step 1. N-methyl-4-[(1-methylethyl)oxy]-3-nitrobenzenesulfonamide

NaH (0.440 g, 11 mmol) was added to 20 mL of isopropanol and the resulting mixture stirred at rt. After 30 min, 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide (2.34 g, 10 mmol) was added. The reaction mixture was then stirred at rt overnight. The mixture was poured into EtOAc and water. The organic phase was separated, dried over Na<sub>2</sub>SO<sub>4</sub>, and concentrated *in vacuo* to give the crude product. Purification *via* flash column chromatography (1:1 petroleum ether/ EtOAc) afforded *N*-methyl-4-[(1-methylethyl)oxy]-3-nitrobenzenesulfonamide (1.6 g, 58%) as a yellow solid. MS (m/z) 274.7 (M+H)<sup>†</sup>.

# Step 2. 3-amino-N-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide

To a mixture of *N*-methyl-4-[(1-methylethyl)oxy]-3-nitrobenzenesulfonamide (1.6 g, 5.8 mmol) in ethanol (20 mL) under nitrogen, Pd/C (0.160 g) was added. The flask was then evacuated and recharged with hydrogen three times. The resulting mixture was allowed to stir under a hydrogen atmosphere overnight at rt. The mixture was then filtered and concentrated to afford 3-amino-*N*-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide (1.1 g, 77%) as a white solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  7.01 - 7.10 (m, 2H), 6.87 - 6.98 (m, 2H), 5.08 (br. s., 2H), 4.63 (dt, J = 5.93, 11.98 Hz, 1H), 2.34 - 2.41 (m, 3H), 1.29 (d, J = 6.02 Hz, 6H); MS (m/z) 244.7 (M+H)<sup>†</sup>.

The following anilines were prepared from 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide using the procedures analogous to those described in Preparation 3:

Aniline Product	Conditions for MS		<sup>1</sup> H NMR	
7	Step 1	(m/z)		
3-amino- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide	sodium methoxide, MeOH	217.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ ppm 7.09 (q, $J$ = 4.85 Hz, 1H), 7.03 (s, 1H), 6.94 (s, 2H), 5.18 (s, 2H), 3.83 (s, 3H), 2.36 (d, $J$ = 5.02 Hz, 3H)	
3-amino-4-(ethyloxy)- <i>N</i> -methylbenzenesulfonamide	sodium ethoxide, ethanol	231.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.06 (q, J=5.07 Hz, 1 H), 7.01 (s, 1 H), 6.89 (s, 2 H), 5.12 (s, 2 H), 4.05 (q, J=6.91 Hz, 2 H), 2.34 (d, J=5.07 Hz, 3 H), 1.34 (t, J=6.95 Hz, 3 H)	

3-amino- <i>N</i> -methyl-4- (propyloxy)benzenesulfonamide	NaH, 1- propanol	245.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, CHCl <sub>3</sub> - <i>d</i> ) δ ppm 7.23 (dd, <i>J</i> =8.38, 2.21 Hz, 1 H), 7.16 (d, <i>J</i> =2.21 Hz, 1 H), 6.83 (d, <i>J</i> =8.38 Hz, 1 H), 4.17 (m, 1 H), 4.03 (t, <i>J</i> =6.51 Hz, 4 H), 2.64 (d, <i>J</i> =5.51 Hz, 3 H), 1.83 - 1.91 (m, 2 H), 1.08 (t, <i>J</i> =7.39 Hz, 3 H)
3-amino- <i>N</i> -methyl-4-[(2-methylpropyl)oxy]benzenesulfon amide	NaH, 2-methyl- 1-propanol	259.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.06 (q, J=5.15 Hz, 1 H), 7.01 (d, J=1.54 Hz, 1 H), 6.85 - 6.92 (m, 2 H), 5.11 (s, 2 H), 3.77 (d, J=6.39 Hz, 2 H), 2.34 (d, J=5.07 Hz, 3 H), 2.00 - 2.08 (m, 1 H), 0.99 (d, J=6.62 Hz, 6 H)
3-amino-4-[(1,2-dimethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide	NaH, 3-methyl- 2-butanol	273.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, CHCl <sub>3</sub> - <i>d</i> ) δ ppm 7.22 (dd, <i>J</i> =8.36, 2.20 Hz, 1 H), 7.17 (d, <i>J</i> =2.35 Hz, 1 H), 6.82 (d, <i>J</i> =8.51 Hz, 1 H), 4.27 (m, 2 H), 4.01 (br. s., 2 H), 2.65 (d, <i>J</i> =5.58 Hz, 3 H), 2.00 (m, 1 H), 1.29 (d, <i>J</i> =6.16 Hz, 3 H), 1.00 (d, <i>J</i> =6.75 Hz, 3 H)
3-amino-4-[(1-ethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide	NaH, 3- pentanol	273.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.05 (q, J=5.07 Hz, 1 H), 7.01 (d, J=2.21 Hz, 1 H), 6.90 (s, 1 H), 6.89 (d, J=1.98 Hz, 1 H), 5.07 (s, 2 H), 4.26 (m, 1 H), 2.35 (d, J=5.07 Hz, 3 H), 1.58 - 1.66 (m, 4 H), 0.88 (t, J=7.39 Hz, 6 H)
3-amino- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfona mide	NaH, 2,2,2- trifluoroethanol	285.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.16 (q, J=4.85 Hz, 1 H), 7.03 - 7.10 (m, 2 H), 6.91 (dd, J=8.38, 2.21 Hz, 1 H), 5.23 (s, 2 H), 4.79 (q, J=8.82 Hz, 2 H), 2.35 (d, J=5.07 Hz, 3 H)

3-amino- <i>N</i> -methyl-4-[(3,3,3-trifluoropropyl)oxy]benzenesulfon amide	NaH, 3,3,3- trifluoro-1- propanol	299.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.08 (m, 1 H), 7.01 (d, J=2.21 Hz, 1 H), 6.93 - 6.98 (m, 1 H), 6.90 (m, 2 H), 5.10 (s, 2 H), 4.21 (t, J=5.95 Hz, 2 H), 2.77 - 2.84 (m, 2 H), 2.33 (d, J=4.63 Hz, 3 H)
3-amino-4-(cyclopentyloxy)- <i>N</i> -methylbenzenesulfonamide	NaH, cyclopentanol	271.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.04 (q, J=4.85 Hz, 1 H), 7.00 (d, J=1.76 Hz, 1 H), 6.86 - 6.90 (m, 2 H), 5.07 (br. s., 2 H), 4.83 (m, 1 H), 2.34 (d, J=5.07 Hz, 3 H), 1.89 (m, 2 H), 1.69 - 1.77 (m, 4 H), 1.55 - 1.62 (m, 2 H)
3-amino-4-(cyclohexyloxy)- <i>N</i> -methylbenzenesulfonamide	NaH, cyclohexanol	285.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.52 (s, 1 H), 7.38 m, 2 H), 7.23 (d, <i>J</i> =8.82 Hz, 1 H), 4.51 (br. s., 1 H), 2.37 (s, 3 H), 1.89 (m, 2 H), 1.73 (m, 2 H), 1.51 (m, 3 H), 1.37 (m, 3 H)
3-amino- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy] benzenesulfonamide	NaH, 1,1,1-trifluoro- 2-propanol	298.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 7.14 - 7.22 (m, 2 H), 7.11 (d, <i>J</i> =2.26 Hz, 1 H), 6.92 (dd, <i>J</i> =8.41, 2.38 Hz, 1 H), 5.19 - 5.30 (m, 3 H), 2.39 (d, <i>J</i> =5.02 Hz, 3 H), 1.45 (d, <i>J</i> =6.27 Hz, 3 H)

The following anilines were prepared from 1,1-dimethylethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate using the procedures analogous to those described in Preparation 3:

Aniline Product	Conditions for Step 1	MS (m/z)	Comment
1,1-dimethylethyl ({3-amino-4- [(2,2,2-trifluoro-1,1- dimethylethyl)oxy]phenyl}sulfonyl )methylcarbamate	NaH, 1,1,1- trifluoro-2- methyl-2- propanol	312.8 (M+H) <sup>†</sup> deprotected 356.9 (M-tBu) <sup>†</sup>	Isolated as a mixture of protected and deprotected material.
1,1-dimethylethyl [(3-amino-4- {[2,2,2-trifluoro-1- (trifluoromethyl)ethyl]oxy}phenyl) sulfonyl]methylcarbamate	NaH, 1,1,1,3,3,3- hexafluoro-2- propanol	397.0 (M-tBu)⁺	

#### PREPARATION 4

# 3-amino-N-methyl-4-(4-morpholinyl)benzenesulfonamide

Step 1. N-methyl-4-(4-morpholinyl)-3-nitrobenzenesulfonamide

To a solution of 4-fluoro-N-methyl-3-nitrobenzenesulfonamide (2.00 g, 8.54 mmol) and morpholine (0.744 g, 8.54 mmol) in THF (100 mL), was added i-Pr<sub>2</sub>NEt (2.21 g, 17.08 mmol). The resulting solution was stirred at 50 °C overnight. In the morning, the reaction mixture was cooled to rt and concentrated to dryness in vacuo. The residue was dissolved in EtOAc and washed with water and brine, dried over MgSO<sub>4</sub>, filtered and concentrated in vacuo to obtain N-methyl-4-(4-morpholinyl)-3-nitrobenzenesulfonamide (2.5 g, 97%) as a red oil. MS (m/z) 302.0 (M+H) $^+$ .

# Step 2. 3-amino-N-methyl-4-(4-morpholinyl)benzenesulfonamide

To a mixture of *N*-methyl-4-(4-morpholinyl)-3-nitrobenzenesulfonamide (2.5 g, 8.30 mmol) in THF (100 mL) under nitrogen, Pd/C (0.8 g) was added. The flask was then evacuated and recharged with hydrogen three times. The resulting mixture was allowed to stir under a hydrogen atmosphere at 50 °C overnight. The mixture was then filtered and concentrated to afford 3-amino-*N*-methyl-4-(4-morpholinyl)benzenesulfonamide (1.98 g, 88%).  $^{1}$ H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  7.07 - 7.17 (m, 2H), 7.01 (d, J = 8.28 Hz, 1H),

6.94 (dd, J = 1.88, 8.16 Hz, 1H), 5.20 (s, 2H), 3.72 - 3.81 (m, 4H), 2.80 - 2.89 (m, 4H), 2.38 (d, J = 4.77 Hz, 3H); MS (m/z) 272.2 (M+H)<sup>+</sup>.

The following anilines were prepared from 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide and the indicated amine using the procedures analogous to those described in Preparation 4:

Audin - Dur door	Conditions for MS Step 1 (m/		¹H NMR	
Aniline Product			H NWK	
3-amino-4-(dimethylamino)- <i>N</i> -methylbenzene-sulfonamide	DIPEA, dimethylamine	230.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ 7.03 - 7.10 (m, 2H), 7.00 (d, $J$ = 8.28 Hz, 1H), 6.93 (dd, $J$ = 2.13, 8.16 Hz, 1H), 5.13 (s, 2H), 2.62 (s, 6H), 2.38 (d, $J$ = 5.02 Hz, 3H)	
3-amino-4-[ethyl(methyl)amino]- N-methylbenzene-sulfonamide	DIPEA, ethyl(methyl)amine	244.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ 7.06 - 7.13 (m, 2H), 7.02 (d, $J$ = 8.28 Hz, 1H), 6.93 (dd, $J$ = 1.76, 8.03 Hz, 1H), 5.11 (s, 2H), 2.89 (q, $J$ = 7.03 Hz, 2H), 2.60 (s, 3H), 2.39 (d, $J$ = 5.02 Hz, 3H), 1.03 (t, $J$ = 7.03 Hz, 3H)	
3-amino-4-(diethylamino)- <i>N</i> -methylbenzenesulfonamide	DIPEA, diethylamine	258.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 0.93 (t, J=7.03 Hz, 6 H) 2.40 (d, J=5.02 Hz, 3 H) 2.95 (q, J=7.03 Hz, 4 H) 5.15 (s, 2 H) 6.92 (dd, J=8.03, 2.01 Hz, 1 H) 7.01 - 7.17 (m, 3 H)	
3-amino- <i>N</i> -methyl-4-(2-methyl-1-pyrrolidinyl)benzenesulfonamide	No base, 2-methylpyrrolidine	270.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 0.91 (d, <i>J</i> =6.02 Hz, 3 H) 1.43 - 1.54 (m, 1 H) 1.68 - 1.81 (m, 1 H) 1.84 - 1.95 (m, 1 H) 2.09 - 2.18 (m, 1 H) 2.38 (d, <i>J</i> =4.77 Hz, 3 H) 2.52 - 2.58 (m, 1 H) 3.56 - 3.70 (m, 2 H) 5.04 (s, 2 H) 6.89 - 6.98 (m, 2 H) 7.04 - 7.12 (m, 2 H)	

3-amino-4-(2,5-dimethyl-1-pyrrolidinyl)- <i>N</i> -methylbenzenesulfonamide	No base, 2,5- dimethylpyrrolidine	284.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 0.88 (d, J=6.02 Hz, 6 H) 1.43 - 1.56 (m, 2 H) 1.95 - 2.06 (m, 2 H) 2.41 (s, 3 H) 3.09 (d, J=5.52 Hz, 2 H) 5.38 (s, 2 H) 6.92 (dd, J=8.16, 2.13 Hz, 1 H) 7.09 (d, J=2.26 Hz, 1 H) 7.19 (s, 1 H) 7.29 (d, J=8.28 Hz, 1 H)
3-amino- <i>N</i> -methyl-4-[2- (trifluoromethyl)-1- pyrrolidinyl]benzenesulfonamide	Et₃N, 2- (trifluoromethyl)pyrro lidine	324.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 1.86 - 2.04 (m, 3 H) 2.27 - 2.38 (m, 1 H) 2.65 - 2.75 (m, 1 H) 3.49 - 3.58 (m, 1 H) 4.47 (br. s., 1 H) 5.20 (s, 2 H) 6.91 (dd, J=8.28, 2.26 Hz, 1 H) 7.10 (d, J=2.26 Hz, 1 H) 7.16 (br. s., 1 H) 7.31 (d, J=8.28 Hz, 1 H)
3-amino-4-(3,3-difluoro-1-piperidinyl)- <i>N</i> -methylbenzenesulfonamide	Et <sub>3</sub> N, 3,3- difluoropiperidine	306.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 1.80 - 1.89 (m, 2 H) 1.98 - 2.10 (m, 2 H) 2.39 (s, 3 H) 2.85 - 2.92 (m, 2 H) 3.14 (t, <i>J</i> =11.29 Hz, 2 H) 5.11 (s, 2 H) 6.96 (dd, <i>J</i> =8.28, 2.26 Hz, 1 H) 7.06 (d, <i>J</i> =8.28 Hz, 1 H) 7.13 (d, <i>J</i> =2.26 Hz, 1 H) 7.18 (s, 1 H)
3,4-diamino- <i>N</i> -methylbenzenesulfonamide	Ammonia (7M in MeOH)	202.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- d <sub>6</sub> ) δ ppm 2.33 (s, 3 H) 4.84 (s, 2 H) 5.22 (s, 2 H) 6.56 (d, J=8.03 Hz, 1 H) 6.77 - 6.86 (m, 2 H) 6.90 (d, J=1.76 Hz, 1 H)

# **PREPARATION 5**

# 3-amino-N-methyl-4-(methylthio)benzenesulfonamide

#### Step 1. N-methyl-4-(methylthio)-3-nitrobenzenesulfonamide

To a solution of 4-fluoro-N-methyl-3-nitrobenzenesulfonamide (15 g, 64.01 mmol) in THF (150 mL), was added 20% CH<sub>3</sub>SNa (22.4 g, 64.01 mmol) dropwise. The resulting mixture was then stirred overnight. In the morning, the mixture was poured into EtOAc and water, the organic phase separated, dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated. The crude material was then purified *via* flash column chromatography (1:1 EtOAc/petroleum ether) to afford N-methyl-4-(methylthio)-3-nitrobenzenesulfonamide (3.29 g, 19%) as a yellow solid. MS (m/z) 262.7 (M+H) $^{+}$ .

# Step 2. 3-amino-N-methyl-4-(methylthio)benzenesulfonamide

To a solution of *N*-methyl-4-(methylthio)-3-nitrobenzenesulfonamide (1.0 g, 3.81 mmol) in 10 mL of ethanol and 10 mL of NH<sub>4</sub>Cl, zinc dust (2.5 g, 3.81 mmol) was added. The reaction mixture was stirred overnight at rt. The mixture was then filtered and diluted with EtOAc and water. The organic phase was separated, washed with water and brine, dried over MgSO<sub>4</sub>, filtered and concentrated to afford 3-amino-*N*-methyl-4-(methylthio)benzenesulfonamide (0.500 g, 56%) as a white solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  7.06 (d, J = 8.03 Hz, 1H), 6.86 (s, 1H), 6.67 - 6.76 (m, 1H), 5.28 (br. s., 2H), 2.17 (s, 3H), 2.21 (s, 3H); MS (m/z) 232.7 (M+H)<sup>+</sup>.

#### PREPARATION 6

# 3-amino-4-(ethylthio)-N-methylbenzenesulfonamide

#### Step 1: 4-(ethylthio)-*N*-methyl-3-nitrobenzenesulfonamide

Sodium ethyl thiolate (1.08 g, 12.8 mmol) was added to a mixture of 4-fluoro-N-methyl-3-nitrobenzenesulfonamide (2 g, 8.6 mmol) in THF (20 mL) and the mixture stirred at rt for 5 h. Water was added to the reaction and extracted with EtOAc. The organic phases were combined, dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated to give 4-(ethylthio)-N-methyl-3-nitrobenzenesulfonamide (2.0 g, 85%) as a yellow solid. MS (m/z) 276.9 (M+H)<sup>†</sup>.

#### Step 2: 3-amino-4-(ethylthio)-N-methylbenzenesulfonamide

Sodium borohydride (1.1 g, 29 mmol) was added to a mixture of 4-(ethylthio)-*N*-methyl-3-nitrobenzenesulfonamide (2.0 g, 7.3 mmol) and nickel (II) chloride hexahydrate

(3.4 g, 14.5 mmol) in MeOH (20 mL) and the mixture stirred for 5 min at 0  $^{\circ}$ C. The MeOH was then removed and the residual solid suspended in CH<sub>2</sub>Cl<sub>2</sub>, filtered and the filtrate concentrated to give 3-amino-4-(ethylthio)-*N*-methylbenzenesulfonamide (1.5 g, 84%) as a yellow solid.  $^{1}$ H NMR (400 MHz, DMSO- $d_{6}$ )  $\delta$  ppm 1.16 (t, J=7.28 Hz, 3 H) 2.38 (d, J=4.85 Hz, 3 H) 2.85 (q, J=7.28 Hz, 2 H) 5.60 (br. s, 2 H) 6.87 (dd, J=7.94, 1.98 Hz, 1 H) 7.08 (d, J=1.98 Hz, 1 H) 7.26 (q, J=5.07 Hz, 1 H) 7.33 (d, J=8.16 Hz, 1 H); MS (m/z) 246.9 (M+H) $^{\dagger}$ .

The following anilines were prepared from 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide and the indicated thiol using the procedures described in Preparation 6:

Aniline Product	Thiol	MS (m/z)	<sup>1</sup> H NMR
3-amino- <i>N</i> -methyl-4-[(1-methylethyl)thio]benzenesul fonamide	<i>i-</i> PrSH	261.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.17 (d, <i>J</i> =6.62 Hz, 6 H) 2.39 (d, <i>J</i> =5.07 Hz, 3 H) 3.28 - 3.36 (m, 1 H) 5.69 (s, 2 H) 6.84 (dd, <i>J</i> =7.94, 1.98 Hz, 1 H) 7.10 (d, <i>J</i> =2.20 Hz, 1 H) 7.26 (q, <i>J</i> =5.07 Hz, 1 H) 7.36 (d, <i>J</i> =7.94 Hz, 1 H)
3-amino- <i>N</i> -methyl-4-[(2-methylpropyl)thio]benzenes ulfonamide	<i>i-</i> PrCH₂SH	275.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 0.94 (d, <i>J</i> =6.62 Hz, 6 H) 1.62 - 1.74 (m, 1 H) 2.36 (d, <i>J</i> =5.29 Hz, 3 H) 2.71 (d, <i>J</i> =6.62 Hz, 2 H) 5.58 (s, 2 H) 6.85 (dd, <i>J</i> =8.16, 1.98 Hz, 1 H) 7.06 (d, <i>J</i> =1.76 Hz, 1 H) 7.23 (q, <i>J</i> =4.85 Hz, 1 H) 7.32 (d, <i>J</i> =8.38 Hz, 1 H)
3-amino-4-[(1,1- dimethylethyl)thio]- <i>N</i> - methylbenzenesulfonamide	<i>t-</i> BuSH	274.9 (M+H) <sup>†</sup> Major ion is 218.9 (M-tBu) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.23 (s, 9 H) 2.38 (d, <i>J</i> =4.85 Hz, 3 H) 5.87 (s, 2 H) 6.81 (dd, 1 H) 7.12 (d, <i>J</i> =1.98 Hz, 1 H) 7.31 (q, <i>J</i> =4.78 Hz, 1 H) 7.36 (d, <i>J</i> =7.94 Hz, 1 H)

#### PREPARATION 7

# 3-amino-4-hydroxy-N-methylbenzenesulfonamide

# Step 1. 4-hydroxy-N-methyl-3-nitrobenzenesulfonamide

A suspension of 4-hydroxy-3-nitrobenzenesulfonyl chloride (0.749 g, 3.15 mmol) and DMAP (0.077 g, 0.630 mmol) in THF (7.880 mL) was treated with CH<sub>3</sub>NH<sub>2</sub> (2 M in THF, 6.30 mL, 12.61 mmol). The resulting mixture was then stirred at rt overnight. The mixture was then filtered and the filtrate partitioned between CH<sub>2</sub>Cl<sub>2</sub> and satd. aq. NaHCO<sub>3</sub>. The layers were separated by hydrophobic frit. The aq. layer was then extracted at pH 7, pH 5 (twice), and pH 2. The pH 5 and pH 2 extracts were then combined and concentrated to afford 4-hydroxy-*N*-methyl-3-nitrobenzenesulfonamide (0.311 g, 42%) as a pale yellow solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  12.09 (br. s., 1H), 8.22 (d, J = 2.52 Hz, 1H), 7.88 (dd, J = 2.27, 8.81 Hz, 1H), 7.53 (q, J = 4.95 Hz, 1H), 7.31 (d, J = 8.81 Hz, 1H), 2.42 (d, J = 5.04 Hz, 3H); MS (m/z) 232.8 (M+H)<sup>†</sup>.

#### Step 2. 3-amino-4-hydroxy-N-methylbenzenesulfonamide

A solution of 4-hydroxy-*N*-methyl-3-nitrobenzenesulfonamide (0.280 g, 1.206 mmol) in ethanol (0.269 mL) was added to a mixture of HCO<sub>2</sub>•NH<sub>4</sub> (0.380 g, 6.03 mmol) and Pd/C (0.128 g, 0.121 mmol) in ethanol (0.269 mL) and the reaction heated to 80 °C. Once the reaction mixture reached 80 °C, it was allowed to cool to rt and stand overnight. The mixture was then filtered through Celite<sup>®</sup> and concentrated to give 3-amino-4-hydroxy-*N*-methylbenzenesulfonamide (0.177 g, 73%) as a brown oil. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)

 $\delta$  9.88 (br. s., 1H), 7.00 (d, J = 2.01 Hz, 2H), 6.80 - 6.87 (m, 1H), 6.75 (d, J = 8.28 Hz, 1H), 4.97 (br. s., 2H), 2.35 (d, J = 4.77 Hz, 3H); MS (m/z) 202.9 (M+H) $^{+}$ .

#### **PREPARATION 8**

#### 3-amino-4-chloro-*N*-methylbenzenesulfonamide

# Step 1. 4-chloro-N-methyl-3-nitrobenzenesulfonamide

A solution of 4-chloro-3-nitrobenzenesulfonyl chloride (10 g, 39.1 mmol) in THF (100 mL) was cooled to -40 °C before being treated with a solution of  $CH_3NH_2$ •HCl (2.64 g, 39.1 mmol) in 10 mL of water followed by TEA (5.44 mL, 39.1 mmol). The reaction mixture was stirred and allowed to warm to rt over 1 h before being partitioned between 350 mL EtOAc and 30 mL brine. The organic layer was washed twice with brine, dried over MgSO<sub>4</sub> and subjected to flash chromatography (330 g silica gel, 0-40% EtOAc/hexane) to afford 4-chloro-*N*-methyl-3-nitrobenzenesulfonamide (6.38 g, 65%) as a light yellow solid. MS (m/z) 251.0 (M+H) $^{+}$ .

# Step 2. 3-amino-4-chloro-*N*-methylbenzenesulfonamide

A solution of 4-chloro-*N*-methyl-3-nitrobenzenesulfonamide (6.35 g, 25.3 mmol) in EtOH (150 mL) and water (50.0 mL) was treated with iron (14.15 g, 253 mmol) and NH<sub>4</sub>Cl (13.55 g, 253 mmol) and heated at 90 °C for 4 h before being cooled and filtered through Celite<sup>®</sup>. The filter cake was washed with EtOAc and the combined filtrate was filtered again to remove precipitated NH<sub>4</sub>Cl before being concentrated. The resulting crude material was partitioned between 350 mL EtOAc and 50 mL saturated aq. NaHCO<sub>3</sub>. The organic layer was washed with brine, dried over MgSO<sub>4</sub>, concentrated and subjected to flash column chromatography (330 g silica gel, 0-15% EtOAc/CH<sub>2</sub>Cl<sub>2</sub>) to afford 3-amino-4-chloro-*N*-methylbenzenesulfonamide (5.604 g, 100%) as a light yellow crystalline solid. <sup>1</sup>H NMR (400 MHz, MeOD) δ ppm 7.39 (d, *J*=8.28 Hz, 1 H), 7.27 (d, *J*=2.26 Hz, 1 H), 7.03 (dd, *J*=8.28, 2.26 Hz, 1 H), 2.54 (s, 3 H). MS 221.0 (M+H)<sup>†</sup>.

The following aniline was prepared using the stated sulfonyl chloride and procedures analogous to those described in Preparation 7 and 8:

Aniline Product	Sulfonyl chloride and base in Step 1	Conditions for Step 2	MS (m/z)
3-amino- <i>N</i> ,4-	4-methyl-3-nitrobenzenesulfonyl	HCO <sub>2</sub> •NH <sub>4</sub> ,	201.0
dimethylbenzenesulfonamide	chloride, Et <sub>3</sub> N	Pd/C	(M+H) <sup>+</sup>

# **PREPARATION 9**

3-amino-N-methyl-4-[methyl(2,2,2-trifluoroethyl)amino]benzenesulfonamide

Step 1. phenylmethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate

A solution of 4-fluoro-*N*-methyl-3-nitrobenzenesulfonamide (2 g, 8.54 mmol) in THF (20 mL) was treated with Et<sub>3</sub>N (2.380 mL, 17.08 mmol) followed by dropwise addition of benzyl chloroformate (3.75 mL, 11.10 mmol). The mixture was stirred at 25 °C for 5 h before being concentrated. The residue was treated with water and extracted with  $CH_2CI_2$ . The organic extracts were washed (brine), dried ( $Na_2SO_4$ ), concentrated, and subjected to flash chromatography (25-50% EtOAc-hexanes) to give a yellow solid, which was suspended in EtOAc-hexanes, collected by filtration, and washed with hexanes to give phenylmethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate (1 g, 32%) as a white solid. MS (m/z) 391.0 (M+Na) $^+$ .

# Step 2. phenylmethyl methyl({3-nitro-4-[(2,2,2-trifluoroethyl)amino]phenyl}sulfonyl) carbamate

A solution of phenylmethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate (1 g, 2.71 mmol) in THF (10 mL) at 25 °C was treated with 2,2,2-trifluoroethylamine (0.592 g, 5.97 mmol) and stirred for 20 h before being concentrated to give a yellow oil, which was dissolved in EtOAc / hexanes. A yellow precipitate formed, which was collected by

filtration and washed with hexanes to give phenylmethyl methyl( $\{3\text{-nitro-4-}[(2,2,2\text{-trifluoroethyl})\text{amino}]\text{phenyl}\}$ sulfonyl)carbamate (1.07 g, 88%) as a yellow solid. MS (m/z) 448.1 (M+H) $^{+}$ .

Step 3. phenylmethyl methyl({4-[methyl(2,2,2-trifluoroethyl)amino]-3-nitrophenyl}sulfonyl) carbamate

A solution of phenylmethyl methyl( $\{3\text{-nitro-4-}[(2,2,2\text{-trifluoroethyl})\text{amino}]\text{phenyl}\}$  sulfonyl)carbamate (1 g, 2.24 mmol) in DMF (1 mL) at 25 °C was treated with NaH (0.179 g, 4.47 mmol) and stirred for 2 min before being treated with iodomethane (0.42 mL, 6.71 mmol). After 1 h, the mixture was diluted with water and extracted with EtOAc. The organic extract was washed (brine), dried (Na<sub>2</sub>SO<sub>4</sub>), concentrated, and subjected to flash chromatography (10-35% EtOAc-hexanes) to give phenylmethyl methyl( $\{4\text{-}[\text{methyl}(2,2,2\text{-trifluoroethyl})\text{amino}]\text{-3-nitrophenyl}\}$ sulfonyl) carbamate (539 mg, 52%) as a yellow oil. MS (m/z) 462.1 (M+H)<sup>†</sup>.

Step 4. 3-amino-N-methyl-4-[methyl(2,2,2-trifluoroethyl)amino]benzenesulfonamide

A solution of phenylmethyl methyl( $\{4-[methyl(2,2,2-trifluoroethyl)amino]-3-nitrophenyl\}$ sulfonyl)carbamate (539 mg, 1.17 mmol) in MeOH (10 mL) at 25 °C was treated with 10% Pd/C (124 mg, 0.117 mmol) and stirred under an atmosphere of hydrogen (balloon) overnight before being filtered through Celite®. The filtrate was again filtered through a 0.45 micron syringe filter and concentrated to give 3-amino-*N*-methyl-4-[methyl(2,2,2-trifluoroethyl)amino]benzenesulfonamide (320 mg, 92%) as a brown oil.  $^1$ H NMR (400 MHz, DMSO- $d_6$ )  $\delta$  ppm 7.14 - 7.20 (m, 2 H), 7.12 (d, J=2.26 Hz, 1 H), 6.95 (dd, J=8.28, 2.26 Hz, 1 H), 5.23 (s, 2 H), 3.82 (q, J=9.87 Hz, 2 H), 2.83 (s, 3 H), 2.39 (d, J=5.02 Hz, 3 H). MS (m/z) 298.0 (M+H) $^+$ .

#### PREPARATION 10

# 5-amino-2-fluoro-N-methylbenzenesulfonamide

#### Step 1. 2-fluoro-5-nitrobenzenesulfonyl chloride

A mixture of 1-fluoro-4-nitrobenzene (3.0 g, 21.3 mmol) in chlorosulfonic acid (5.5 mL, 84 mmol) was stirred at 90-100 °C for 8 h before being cooled to rt and slowly poured into ice water and extracted with EtOAc. The organic extract was washed with saturated aq.  $NaHCO_3$  and water, dried ( $Na_2SO_4$ ), and concentrated to give 2-fluoro-5-nitrobenzenesulfonyl chloride (3.2 g, 63%) as a colorless oil, which was used directly in the next step.

#### Step 2. 2-fluoro-N-methyl-5-nitrobenzenesulfonamide

A solution of 2-fluoro-5-nitrobenzenesulfonyl chloride (3.2 g, 12.6 mmol) in THF (30 mL) at -45 °C was treated with methylamine hydrochloride (1.0 g, 15.1 mmol) and  $Et_3N$  (2.1 mL, 15.1 mmol) and stirred for 30 min. The mixture was then treated with 6M aq. HCl to adjust the pH to 3 and warmed to rt before being diluted with water and extracted with EtOAc. The organic extract was dried ( $Na_2SO_4$ ), concentrated, and subjected to flash chromatography (5-20% EtOAc-petroleum ether) to give 2-fluoro-N-methyl-5-nitrobenzenesulfonamide as a yellow solid (3.0 g, 93%). MS (m/z) 235.1 (M+H) $^{\dagger}$ .

# Step 3. 5-amino-2-fluoro-N-methylbenzenesulfonamide

A solution of 2-fluoro-*N*-methyl-5-nitrobenzenesulfonamide (3.0 g, 12.8 mmol) in MeOH (40 mL) was treated with 10% Pd/C (300 mg, 0.28 mmol) and stirred under hydrogen (40 psi) fo 8 h before being filtered through Celite® and concentrated to give 5-amino-2-fluoro-*N*-methylbenzenesulfonamide (2.5 g, 96%) as an off-white solid.  $^{1}$ H NMR (400 MHz, DMSO- $d_{6}$ )  $\delta$  ppm 7.40 - 7.49 (m, 1 H), 7.01 - 7.09 (m, 1 H), 6.94 (dd, J=5.95,

2.87 Hz, 1 H), 6.71 - 6.77 (m, 1 H), 5.49 (br. s., 2 H), 2.45 (d, J=4.85 Hz, 3 H). MS (m/z) 205.1 (M+H) $^{+}$ .

The following anilines were prepared from the indicated nitrobenzenes using procedures analogous to those described in Preparation 10:

Aniline Product	Nitrobenzene in Step 1	MS (m/z)	<sup>1</sup> H NMR
3-amino- <i>N</i> -methyl-4- [(trifluoromethyl)oxy]benzenesulf onamide	1-nitro-2- [(trifluoromethyl )oxy]benzene	271.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 7.39 (q, $J$ =4.77 Hz, 1 H), 7.31 (dd, $J$ =8.53, 1.51 Hz, 1 H), 7.24 (d, $J$ =2.26 Hz, 1 H), 6.92 (dd, $J$ =8.41, 2.38 Hz, 1 H), 5.92 (s, 2 H), 2.43 (d, $J$ =4.77 Hz, 3 H)
5-amino-2-fluoro- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide	4-fluoro-2- (methyloxy)-1- nitrobenzene	235.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 7.31 (br. s., 1 H), 6.96 (d, $J$ =7.28 Hz, 1 H), 6.90 (d, $J$ =11.91 Hz, 1 H), 4.97 (s, 2 H), 3.82 (s, 3 H), 2.40 (d, $J$ =3.75 Hz, 3 H)

## PREPARATION 11

5-amino-4-(dimethylamino)-2-fluoro-N-methylbenzenesulfonamide

Step 1. 2,4-difluoro-5-nitrobenzenesulfonyl chloride

A mixture of 2,4-difluoro-1-nitrobenzene (20 g, 126 mmol) in chlorosulfonic acid (44 g, 378 mmol) was stirred at 100 °C for 48 h before being poured into ice-water and extracted with EtOAc. The organic extract was dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated, and the residue was triturated with 10% EtOAc-petroleum ether to give 2,4-difluoro-5-

nitrobenzenesulfonyl chloride as a brown oil (21 g, 81%) which was used directly in the next step.

# Step 2. 2,4-difluoro-N-methyl-5-nitrobenzenesulfonamide

A solution of 2,4-difluoro-5-nitrobenzenesulfonyl chloride (21 g, 81 mmol) in THF (400 mL) at -60 °C was treated with methylamine hydrochloride (6.6 g, 97 mmol) and then treated dropwise with Et<sub>3</sub>N (22.6 mL, 162 mmol). After stirring for 6 h at -60 to -40 °C the mixture was adjusted to pH 3 with the addition of 15% aq. HCl, diluted with water, and extracted with EtOAc. The organic extracts were dried (Na<sub>2</sub>SO<sub>4</sub>), concentrated, and subjected to flash chromatography (17% EtOAc-petroleum ether) to give 2,4-difluoro-*N*-methyl-5-nitrobenzenesulfonamide (8 g, 38%) as a brown solid.

 $^{1}$ H NMR (400 MHz, CDCl<sub>3</sub>) δ ppm 8.66 - 8.74 (m, 1 H), 7.20 - 7.25 (m, 1 H), 4.81 - 4.91 (m, 1 H), 2.78 - 2.81 (m, 3 H).

# Step 3. 4-(dimethylamino)-2-fluoro-N-methyl-5-nitrobenzenesulfonamide

A solution of 2,4-difluoro-N-methyl-5-nitrobenzenesulfonamide (8.0 g, 31.6 mmol) in CH<sub>2</sub>Cl<sub>2</sub> (200 mL) at -20 °C was treated with dimethylamine hydrochloride (2.56 g, 31.6 mmol). The resulting mixture was treated dropwise with Et<sub>3</sub>N and stirred for 1 h before being treated with 15% aq. HCl to adjust the pH, diluted with water, and extracted with EtOAc. The organic extract was dried (Na<sub>2</sub>SO<sub>4</sub>), concentrated, and subjected to flash chromatography (20-50% EtOAc-petroleum ether) to give 4-(dimethylamino)-2-fluoro-N-methyl-5-nitrobenzenesulfonamide (4.0 g, 46%) as a yellow solid. MS (m/z) 278.1 (M+H) $^{+}$ .

# Step 4. 5-amino-4-(dimethylamino)-2-fluoro-N-methylbenzenesulfonamide

A solution of 4-(dimethylamino)-2-fluoro-*N*-methyl-5-nitrobenzenesulfonamide (4.0 g, 14.3 mmol) in MeOH (100 mL) was treated with 10% Pd/C (400 mg) and stirred under H<sub>2</sub> (50 psi) for 16 h before being filtered, concentrated, and subjected to flash chromatography (33-50% EtOAc-petroleum ether) to give 5-amino-4-(dimethylamino)-2-fluoro-*N*-methylbenzenesulfonamide as a white solid (2.5 g, 71%). <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>)  $\delta$  ppm 7.13 (d, *J*=7.28 Hz, 1 H), 6.75 (d, *J*=11.69 Hz, 1 H), 4.58 (q, *J*=4.85 Hz, 1 H), 3.87 (br. s., 2 H), 2.66 (d, *J*=5.51 Hz, 3 H). MS (m/z) 248.1 (M+H)<sup>†</sup>.

#### PREPARATION 12

# 5-amino-2-fluoro-N-methyl-4-(methylthio)benzenesulfonamide

Step 1: 2-fluoro-N-methyl-4-(methylthio)-5-nitrobenzenesulfonamide

A mixture of 2,4-difluoro-N-methyl-5-nitrobenzenesulfonamide (2 g, 7.9 mmol) and pyridine (1.25 g, 15.9 mmol) in MeOH (1 mL) was cooled to 0 °C. Sodium methanethiolate (21 %, 2.92 g, 8.6 mmol) was then added slowly and the mixture stirred at 0 °C for 30 min. The recation was then diluted by the addition of  $CH_2CI_2$ . The organic was separated and washed with brine, dried ( $Na_2SO_4$ ) and then concentrated. The crude was combined with another batch of material and recrystallised from  $CH_2CI_2$ /petroleum ether to give 5-amino-2-fluoro-N-methyl-4-(methylthio)benzenesulfonamide as a yellow solid. MS (m/z) 281.0 (M+H) $^+$ .

# Step 2: 5-amino-2-fluoro-N-methyl-4-(methylthio)benzenesulfonamide

To a solution of 2-fluoro-N-methyl-4-(methylthio)-5-nitrobenzenesulfonamide (3 g, 10.7 mmol) in MeOH at 0  $^{\circ}$ C was added nickel (II) chloride hexahydrate (5. 04 g, 21.4 mmol) and sodium borohydride (1.62 g, 42.8 mmol). After 5 min the MeOH was removed, water added to the residue and the solution extracted with  $CH_2CI_2$ . The  $CH_2CI_2$ was then dried ( $Na_2SO_4$ ) and concentrated. The residue was combined with that from another batch and purified via flash chromatography (silica gel, 5:1 petroleum ether:EtOAc) to give 5-amino-2-fluoro-N-methyl-4-(methylthio)benzenesulfonamide (50% over two batches) as a white solid. MS (m/z) 251.1 (M+H) $^{+}$ .

#### **PREPARATION 13**

5-amino-2-fluoro-N-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide

# Step 1. 4-fluoro-1-nitro-2-[(2,2,2-trifluoroethyl)oxy]benzene

A mixture of 2,4-difluoro-1-nitrobenzene (10 g, 62.9 mmol) and 2,2,2-trifluoroethanol (6.29 g, 62.9 mmol) in THF (100 mL) at 25 °C was treated with  $Cs_2CO_3$  (20.5 g, 62.9 mmol) and stirred for 8 h before being diluted with the addition of water and extracted with EtOAc. The organic extract was dried ( $Na_2SO_4$ ), concentrated, and subjected to flash chromatography (3% EtOAc-petroleum ether) to give 4-fluoro-1-nitro-2-[(2,2,2-trifluoroethyl)oxy]benzene (10 g, 67%) as a yellow solid. MS (m/z) 240.0 (M+H) $^+$ .

#### Step 2. 2-fluoro-5-nitro-4-[(2.2.2-trifluoroethyl)oxylbenzenesulfonyl chloride

A mixture of 4-fluoro-1-nitro-2-[(2,2,2-trifluoroethyl)oxy]benzene (10 g, 41.8 mmol) in chlorosulfonic acid (82 mL, 125.5 mmol) was stirred at 50 °C for 8 h before being poured into ice and extracted with EtOAc. The organic extracts were dried (Na<sub>2</sub>SO<sub>4</sub>) and concentrated to give 2-fluoro-5-nitro-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonyl chloride (15 g, crude) as a brown oil, which was used directly in the next step.

# Step 3. 2-fluoro-N-methyl-5-nitro-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide

A mixture of 2-fluoro-5-nitro-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonyl chloride (15 g, crude) in THF (150 mL) at -45 °C was treated with methylamine hydrochloride (5.96 g, 89 mmol) and then treated dropwise with Et<sub>3</sub>N (12.4 mL, 89 mmol). After stirring for 1 h at -45 °C, the mixture was adjusted to pH 3 by the addition of aq. 3M HCl, warmed to rt, diluted with water, and extracted with EtOAc. The organic extract was dried (Na<sub>2</sub>SO<sub>4</sub>), concentrated, and subjected to flash chromatography (9-17% EtOAc-petroleum ether) to give 2-fluoro-*N*-methyl-5-nitro-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide (10 g, 72% for two steps) as a yellow solid. MS (m/z) 333.0 (M+H)<sup>+</sup>.

Step 4. 5-amino-2-fluoro-N-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide

A mixture of 2-fluoro-*N*-methyl-5-nitro-4-[(2,2,2-trifluoroethyl)oxy]benzene-sulfonamide (10 g, 30.1 mmol) in MeOH (150 mL) was treated with 10% Pd/C (1 g) and stirred under H<sub>2</sub> (45 psi) at 45 °C for 10 h before being filtered. The filtrate was concentrated to give 5-amino-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzene-sulfonamide (8 g, 88%) as a white solid. <sup>1</sup>H NMR (400 MHz, DMSO- $d_6$ )  $\delta$  ppm 7.40 (q, J=5.07 Hz, 1 H), 7.10 (d, J=11.69 Hz, 1 H), 7.05 (d, J=7.28 Hz, 1 H), 5.04 (s, 2 H), 4.83 (q, J=8.82 Hz, 2 H), 2.42 (d, J=4.41 Hz, 3 H). MS (m/z) 303.0 (M+H)<sup>+</sup>.

The following aniline was prepared from 2,4-difluoro-1-nitrobenzene and the indicated alcohol using procedures analogous to those described in Preparation 13:

Aniline Product	Alcohol in Step 1	MS (m/z)	
5-amino-2-fluoro- <i>N</i> -methyl-4-[(2,2,2-trifluoro- 1,1,1-trifluoro-2-		317.0 (M+H) <sup>+</sup>	
1-methylethyl)oxy]benzenesulfonamide	propanol	317.0 (10111)	

# PREPARATION 14

# 5-amino-N-methyl-3-pyridinesulfonamide

# Step 1. 5-bromo-3-pyridinesulfonyl chloride

A mixture of 3-pyridinesulfonyl chloride hydrochloride (8.9 g, 44 mmol) and bromine (14 g, 88 mmol) was heated to 130  $^{\circ}$ C for 8 h. The mixture was cooled and used directly in the next step.

# Step 2. 5-bromo-N-methyl-3-pyridinesulfonamide

To  $CH_3NH_2$  (50 mL of a 23-30 weight percent in  $H_2O$ ) at 0 °C, was added 5-bromo-3-pyridinesulfonyl chloride (44 mmol). The mixture was then warmed to rt and stirred for 3

h. The mixture was then extracted with EtOAc and concentrated *in vacuo*. The crude material was combined with that from an additional experiment (10 mmol scale) run under identical conditions and washed with 10:1 hot petroleum ether/EtOAc to afford 5-bromo-*N*-methyl-3-pyridinesulfonamide (2.4 g, 18% combined yield over two steps).

#### Step 3. 5-amino-N-methyl-3-pyridinesulfonamide

A mixture of 5-bromo-*N*-methyl-3-pyridinesulfonamide (2.4 g, 9.6 mmol), CuCl (0.100 g, 1.01 mmol), and NH<sub>4</sub>OH (5 mL) was heated to 130 °C for 18 h in a sealed tube. The reaction mixture was then treated with sodium sulfide and extracted with EtOAc. The combined organic extracts were then concentrated *in vacuo* and the crude material washed with 20:5:3 hot petroleum ether/EtOAc/MeOH to afford 5-amino-*N*-methyl-3-pyridinesulfonamide (1.1 g, 61%) as a brown solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  8.11 (d, J = 2.51 Hz, 1H), 8.04 (d, J = 1.76 Hz, 1H), 7.47 (br. s., 1H), 7.24 (t, J = 2.13 Hz, 1H), 5.83 (br. s., 2H), 2.44 (s, 3H); MS (m/z) 188.1 (M+H)<sup>†</sup>.

#### **PREPARATION 15**

## 3-chloro-N-methyl-5-nitrobenzenesulfonamide

## Step 1. 3,5-dinitrobenzenesulfonyl chloride

(3,5-dinitrophenyl)amine (5 g, 27.3 mmol) was added in one portion to a well stirred solution of concentrated HCl (conc.) (20 mL) and 20 mL water and the mixture was cooled to -10 °C before a solution of NaNO<sub>2</sub> (2.072 g, 30.0 mmol) in water (5 mL) was added dropwise at such a rate that the temperature did not exceed -5 °C. The mixture was stirred for 45 min at -10 °C after the addition. While the diazotization reaction proceeded, a separate well-stirred solution of AcOH (6.67 mL) and 30 mL water was saturated with SO<sub>2</sub> by bubbling the gas into the solution until all gas introduced emerged to the surface. CuCl (0.676 g, 6.83 mmol) was added to the solution and the introduction of SO<sub>2</sub> was

continued until the yellow-green suspension became blue-green. The  $SO_2/CuCl$  mixture was then cooled to 10 °C before being treated with the diazotization reaction mixture in portions over a 20 min period. The foaming that occurred upon addition was disrupted with a few drops of  $Et_2O$ . After the addition was complete, the dark red mixture was poured into ice-water (100 mL) and stirred until the ice melted before being filtered. The collected solid was dried in air to afford 3,5-dinitrobenzenesulfonyl chloride (6.01 g, 83%) as a red solid that was used directly in the next step.

# Step 2. N-methyl-3,5-dinitrobenzenesulfonamide

A light brown solution of 3,5-dinitrobenzenesulfonyl chloride (7.28 g, 27.3 mmol) in THF (200 mL) was treated with pyridine (100 mL) to give a dark brown solution, which was cooled to -10 °C before methyl amine (in THF) (13.65 mL, 27.3 mmol) was added slowly by syringe. The resulting solution was stirred at rt for 48 h before being concentrated. The crude residue was partitioned between 600 mL EtOAc and 150 mL 1 N HCl. The organic layer was washed twice with 100 mL 1 N HCl, brine (50 mL), dried over MgSO<sub>4</sub>, concentrated, and subjected to flash column chromatography (330 g silica gel, 0-10% EtOAc / CH<sub>2</sub>Cl<sub>2</sub>) to afford *N*-methyl-3,5-dinitrobenzenesulfonamide (1.98 g, 28%). <sup>1</sup>H NMR (400 MHz, MeOD) δ ppm 9.20 (s, 1 H), 8.96 (d, *J*=2.01 Hz, 2 H), 2.65 (s, 3 H).

## Step 3. 3-amino-N-methyl-5-nitrobenzenesulfonamide

A light red solution of N-methyl-3,5-dinitrobenzenesulfonamide (1.98 g, 7.58 mmol) in ethanol (120 mL) was treated with a solution of ammonium sulfide (2.58 g, 37.9 mmol) in water (15 mL). The resulting dark red solution was heated at 80 °C before being filtered, concentrated, and extracted three times with EtOAc (100 mL). The organic layer was dried over MgSO<sub>4</sub>, concentrated, and purified by SCX ion exchange column (20 g x 2, washed with MeOH and eluted with 3 M ammonia in MeOH). The appropriate fractions were concentrated to afford a dark brown solid. The aqueous phase contained significant amount of target product, thus, it was concentrated and the residue was re-distributed in 200 mL EtOAc and then concentrated. The resulting brown oil was combined with the above solid and purified by flash column chromatography (120 g silica column, 0-10% MeOH 0.1% afford (w/ ag. NH<sub>4</sub>OH)/CH<sub>2</sub>Cl<sub>2</sub>) to 3-amino-N-methyl-5nitrobenzenesulfonamide (0.698 g, 39.8%) as a yellow-brown solid. <sup>1</sup>H NMR (400 MHz, MeOD)  $\delta$  ppm 7.77 (m, 1 H), 7.62 - 7.69 (m, 1 H), 7.40 (m, 1 H), 2.58 (s, 3 H). MS (m/z) 232.0 (M+H)<sup>+</sup>.

## Step 4. 3-chloro-*N*-methyl-5-nitrobenzenesulfonamide

3-amino-*N*-methyl-5-nitrobenzenesulfonamide (0.698 g, 3.02 mmol) was added in one portion into a solution of HCI (conc.) (10 mL, 329 mmol) and 10 mL water and the mixture was cooled to -10 °C before a solution of sodium nitrite (0.208 g, 3.02 mmol) in 5 mL water was added dropwise. The resulting mixture was stirred at -10 °C for 30 min before being added slowly into a mixture of CuCl (0.075 g, 0.755 mmol) in 20 mL of concentrated HCl at 4 °C. The reaction mixture was stirred at 0 °C for 15 min before being poured into 150 mL water, filtered, washed with water and dried in air to afford 3-chloro-*N*-methyl-5-nitrobenzenesulfonamide (0.510 g, 67.4%) as a light brown solid.  $^1$ H NMR (400 MHz, MeOD)  $\delta$  ppm 8.55 (m, 2 H), 8.23 (m, 1 H), 2.62 (s, 3 H). MS (m/z) 251.0 (M+H) $^{+}$ .

#### PREPARATION 16

## 3-amino-5-chloro-N-methylbenzenesulfonamide

A solution of 3-chloro-*N*-methyl-5-nitrobenzenesulfonamide (104 mg, 0.415 mmol) in ethanol (10 mL) was treated with tin(II) chloride (315 mg, 1.660 mmol) and heated at 84 °C for 3 h before being concentrated and subjected to flash column chromatography (40 g silica column, 0-100% EtOAc/Hexane) to afford 3-amino-5-chloro-*N*-methylbenzenesulfonamide (63 mg, 68.8%) as a white solid.  $^1$ H NMR (400 MHz, MeOD)  $^3$ D ppm 7.00 (d,  $^3$ =1.76 Hz, 1 H), 6.98 (t,  $^3$ =1.63 Hz, 1 H), 6.86 (t,  $^3$ =1.88 Hz, 1 H), 2.55 (s, 3 H). MS (m/z) 221.0 (M+H) $^4$ .

#### PREPARATION 17

## 3-amino-5-(dimethylamino)-N-methylbenzenesulfonamide

## Step 1. 3-(dimethylamino)-N-methyl-5-nitrobenzenesulfonamide

A mixture of 3-chloro-*N*-methyl-5-nitrobenzenesulfonamide (150 mg, 0.598 mmol) and dimethylamine (2 M in water) (1.496 mL, 2.99 mmol) in DMSO (4 mL) was heated under microwave irradiation at 110 °C for 30 min before being subjected to reverse phase HPLC (Sunfire 30x100 C-18 column, 10-50% CH<sub>3</sub>CN/water (w/ 0.1% TFA) over 14 min) to afford 69 mg of a light yellow solid. HNMR analysis demonstrated that this solid was 3:1 mixture of starting material and product. Thus, the solid was dissolved in 6 mL DMSO, treated with a solution of dimethylamine (1.5 mL, 2 M aq. solution) and heated at 110 °C for 20 h before being partitioned between 120 mL EtOAc and 20 mL brine. The organic layer was dried over MgSO<sub>4</sub>, concentrated, and subjected to flash column chromatography (40 g silica column, 0-40% EtOAc/hexane) to afford 3-(dimethylamino)-*N*-methyl-5-nitrobenzenesulfonamide (42 mg, 27.1%) as a yellow solid. <sup>1</sup>H NMR (400 MHz, MeOD)  $\delta$  ppm 7.84 (d, *J*=1.51 Hz, 1 H), 7.70 (d, *J*=2.01 Hz, 1 H), 7.42 (d, *J*=1.25 Hz, 1 H), 3.14 (s, 6 H), 2.58 (s, 3 H). MS (m/z) 260.0 (M+H)<sup>†</sup>.

## Step 2. 3-amino-5-(dimethylamino)-N-methylbenzenesulfonamide

A solution of 3-(dimethylamino)-*N*-methyl-5-nitrobenzenesulfonamide (42 mg, 0.162 mmol) in MeOH (15 mL) was purged with nitrogen before being treated with Pd/C (1.724 mg, 0.016 mmol) and then placed under a hydrogen balloon. The mixture was stirred at rt for 4 h before being filtered and concentrated to afford 3-amino-5-(dimethylamino)-*N*-methylbenzenesulfonamide (38 mg, 0.166 mmol, 102%) as a light brown oil, which was used immediately in the subsequent reaction. MS (m/z) 230.1 (M+H)<sup>†</sup>.

## PREPARATION 18

## N-methyl-2,3-dihydro-1H-indole-6-sulfonamide

## Step 1. 2,3-dihydro-1*H*-indole-6-sulfonic acid

 $H_2SO_4$ •SO $_3$  (20%, 21 mL, 0.42 mmol) was cooled to 0 °C. Indoline (5.0 g, 0.042 mmol) was added dropwise such that the temperature of the reaction mixture did not rise above 35 °C. When the addition was complete the mixture was heated to 135 °C for 0.5 h. After cooling, the solution was poured into an ice bath at which time the product crystallized. The mixture was then filtered and washed with water and acetone to give 2,3-dihydro-1*H*-indole-6-sulfonic acid (6.9 g, 82%) as a white solid.

## Step 2. 1-acetyl-2,3-dihydro-1*H*-indole-6-sulfonic acid

To a slurry of 2,3-dihydro-1H-indole-6-sulfonic acid (6.9 g, 34.6 mmol) in AcOH (40 mL), was added acetic anhydride (3.5 g, 34.6 mmol) and pyridine (15 mL). The mixture was then heated to 100 °C for 24 h before it was cooled and concentrated to afford 1-acetyl-2,3-dihydro-1H-indole-6-sulfonic acid (8.8 g, 84%) as a brown oil that was used in the next step without further purification.

# Step 3. 1-acetyl-2,3-dihydro-1*H*-indole-6-sulfonyl chloride

To a mixture of POCl<sub>3</sub> (12.6 g, 153.33 mmol) and one drop of DMF in CH<sub>3</sub>CN (100 mL), was added 1-acetyl-2,3-dihydro-1H-indole-6-sulfonic acid (8.8 g, 27.5 mmol). The mixture was heated to reflux for 1 h and then concentrated to give a pale yellow oil. The oil was then poured into ice and filtered to give 1-acetyl-2,3-dihydro-1H-indole-6-sulfonyl chloride (7.0 g) as a brown solid that was used in the next step without further purification.

# Step 4. 1-acetyl-N-methyl-2,3-dihydro-1H-indole-6-sulfonamide

To a solution of 1-acetyl-2,3-dihydro-1H-indole-6-sulfonyl chloride (7.0 g, 27.0 mmol) in 100 mL of CH<sub>2</sub>Cl<sub>2</sub>, 30% aq. methyl amine was added dropwise at a rate such that the internal temperature of the reaction did not rise above 22 °C. The mixture was then stirred for 2 h. The solution was washed with water, then brine, dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated *in vacuo*. The residue was purified *via* flash column chromatography (1:1 petroleum ether/EtOAc) to give 1-acetyl-N-methyl-2,3-dihydro-1H-indole-6-sulfonamide (5.0 q, 74%) as a brown solid. MS (m/z) 255.3 (M+H) $^+$ .

## Step 5. *N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide

A slurry of 1-acetyl-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide (5.0 g, 19.7 mmol) was purged with HCl gas for 30 min. The solution was then stirred at rt for 2 h before the solution was concentrated *in vacuo*. The resulting solid was dissolved in satd.

aq. NaHCO<sub>3</sub> and EtOAc. The layers were separated and the organic layer washed with water, then brine, dried over Na<sub>2</sub>SO<sub>4</sub>, filtered and concentrated *in vacuo*. The crude material was then purified *via* flash column chromatography (silica gel, 1:1 EtOAc/petroleum ether) to afford *N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide (1.49 g, 32%) as a yellow solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  7.13 - 7.23 (m, 2H), 6.90 (dd, *J* = 1.51, 7.53 Hz, 1H), 6.77 - 6.83 (m, 1H), 5.96 (s, 1H), 3.44 - 3.54 (m, 2H), 2.97 (t, *J* = 8.66 Hz, 2H), 2.37 (d, *J* = 5.02 Hz, 3H); MS (m/z) 255.3 (M+H)<sup>+</sup>.

#### PREPARATION 19

# *N*,3,3-trimethyl-2,3-dihydro-1*H*-indole-6-sulfonamide

#### Step 1. N-(2-methyl-2-propen-1-yl)-N-phenylacetamide

*N*-phenylacetamide (25.0 g, 185.2 mmol), potassium carbonate (28.1 g, 203.7 mmol), NaOH (8.1 g, 203.7 mmol), TBAB (1.2 g, 3.7 mmol) and toluene (500 mL) were mixed and heated to 75  $^{\circ}$ C with vigorous stirring. The reaction was stirred for 16 h at 75  $^{\circ}$ C. The mixture was then cooled to rt, water was added and the mixture stirred until all the solids had dissolved. The aqueous layer was separated and the toluene layer washed with 5N HCl and water. The solvent was then removed under reduced pressure to give *N*-(2-methyl-2-propen-1-yl)-*N*-phenylacetamide (30 g, 85%) as an oil. MS (m/z) 255.3 (M+H) $^{\dagger}$ .

## Step 2. 1-acetyl-3,3-dimethyl-2,3-dihydro-1*H*-indole

N-(2-methyl-2-propen-1-yl)-N-phenylacetamide (25.0 g, 131 mmol) was added slowly to a stirred suspension of aluminium trichloride (38.0 g, 289 mmol) in chlorobenzene (25 mL) at 115 °C under nitrogen. The temperature was maintained at 115-120 °C for the duration of the addition. The reaction was then stirred for 1 h at 115-120 °C then cooled to rt. Toluene was added and the mixture stirred to give a solution. Water was then slowly added at such a rate to maintain the internal temperature to below 45 °C with cooling applied. The organic layer was separated and washed with 6N HCl and then concentrated to give 1-acetyl-3,3-dimethyl-2,3-dihydro-1H-indole (22.0 g, 88%) as a brown solid.  $^1$ H NMR (400 MHz, CHLOROFORM-d)  $\delta$  ppm 1.34 (s, 6 H) 2.21 (s, 3 H) 3.76 (s, 2 H) 7.01 - 7.06 (m, 1 H) 7.11 (s, 1 H) 7.16 - 7.22 (m, 1 H) 8.17 (d, J=8.16 Hz, 1 H)

# Step 3. 3,3-dimethyl-2,3-dihydro-1*H*-indole

To a solution of 1-acetyl-3,3-dimethyl-2,3-dihydro-1H-indole (22.0 g, 115.8 mmol) in MeOH (100 mL) was added 4M HCl in MeOH (100 mL) and the mixture stirred at 50 °C for 16 h. The solvent was then removed under reduced pressure. Water was added to the residue, the pH was adjusted to pH 8 and the aqueous layer was extracted with EtOAc. The organic layer was then dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and then concentrated to give 3,3-dimethyl-2,3-dihydro-1H-indole (16.0 g, 94%). <sup>1</sup>H NMR (400 MHz, CHLOROFORM-d)  $\delta$  ppm 1.30 (s, 6 H) 3.30 (s, 2 H) 6.62 - 6.66 (m, 1 H) 6.71 - 6.76 (m, 1 H) 7.02 (s, 2 H)

## Step 4. 3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid

A mixture of 3,3-dimethyl-2,3-dihydro-1*H*-indole (16.0 g, 109 mmol) in fuming sulphuric acid (60 mL) was stirred at rt for 45 min. The reaction was then heated to 135 °C for 1 h. After cooling the solution was poured into ice water, cooled to -50 °C and allowed to stand for 2 h. The resultant precipitate was collected by filtration to give 3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid (7 g, 28 %). MS (m/z) 228.0 (M+H)<sup>+</sup>.  $^{1}$ H NMR (400 MHz, DMSO- $d_6$ )  $\delta$  ppm 1.31 (s, 6 H) 3.52 (s, 2 H) 7.40 (d, J=7.94 Hz, 1 H) 7.58 (s, 1 H) 7.64 (dd, J=7.83, 1.43 Hz, 1 H)

## Step 5. 1-acetyl-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid

To a suspension of 3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid (7.0 g, 30.8 mmol) in AcOH (70 mL) was added acetic anhydride (6.3 g, 61.6 mmol) and pyridine (4.9 g, 61.6 mmol). The mixture was stirred at 80 °C for 1 h. The reaction was concentrated and the residue washed with 10:1 petroleum ether:EtOAc to give 1-acetyl-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid (9.0 g, 84%) as a brown solid. <sup>1</sup>H NMR (400 MHz,

DMSO- $d_6$ )  $\delta$  ppm 1.24 (s, 6 H) 3.81 (s, 2 H) 7.12 (d, J=7.72 Hz, 1 H) 7.27 (d, J=6.84 Hz, 1 H) 8.00 (t, J=6.84 Hz, 2 H) 8.27 (s, 1 H) 8.52 (t, J=7.83 Hz, 1 H) 8.88 (d, J=5.07 Hz, 2 H)

#### Step 6. 1-acetyl-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonyl chloride

To a solution of 1-acetyl-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid (9.0 g, 25 mmol) in CH<sub>3</sub>CN (100 mL) was added POCl<sub>3</sub> (11.5 g, 75 mmol) and the mixture refluxed for 2 h. The mixture was concentrated and EtOAc and water were added. The layers were separated and the aqueous layer was extracted several times with EtOAc. The combined organics were then dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and the solvent removed under reduced pressure to give 1-acetyl-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonyl chloride (5.1 g, 64%) which was used directly in the next step. MS (m/z) 288.1 (M+H)<sup>+</sup>.

# Step 7. 1-acetyl-*N*,3,3-trimethyl-2,3-dihydro-1*H*-indole-6-sulfonamide

A solution of 1-acetyl-3,3-dimethyl-2,3-dihydro-1H-indole-6-sulfonyl chloride (5.1 g, 17.8 mmol) in anhydrous dichloromethane (150 mL) was added to a solution of methylamine in ethanol (50 mL, 30 %). The mixture was stirred at rt for 30 min. Water was then added to the mixture and the two layers were separated. The aqueous layer was extracted twice with additional dichloromethane. The combined organics were then dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and the solvent removed under reduced pressure to give 1-acetyl-N,3,3-trimethyl-2,3-dihydro-1H-indole-6-sulfonamide (4.5 g, 89%) as a brown solid. MS (m/z) 283.0 (M+H) $^{\dagger}$ .

#### Step 8. N.3.3-trimethyl-2,3-dihydro-1*H*-indole-6-sulfonamide

To a solution of 1-acetyl-N,3,3-trimethyl-2,3-dihydro-1H-indole-6-sulfonamide (4.5 g, 15.9 mmol) in MeOH (45 mL) was added 4M HCl in MeOH solution (45 mL) and the mixture stired for 15 h at 50 °C. The mixture was then concentrated. The residue was diluted with EtOAc and the pH adjusted to pH 8. The two layers were separated and the aqueous layer was extracted twice with additional EtOAc. The combined organics were then dried (Na<sub>2</sub>SO<sub>4</sub>), filtered and the solvent removed under reduced pressure. The residue was then purified *via* flash column chromatography (silica gel, 5:1 to 2: petroleum ether:EtOAc) to to give N,3,3-trimethyl-2,3-dihydro-1H-indole-6-sulfonamide (3.5 g, 76%) as a white solid. MS (m/z) 241.1 (M+H)<sup>+</sup>. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  ppm 1.21 (s, 6 H) 2.36 (d, J=5.07 Hz, 3 H) 3.22 (d, J=1.54 Hz, 2 H) 5.93 (s, 1 H) 6.80 (d, J=1.76 Hz, 1 H) 6.93 (dd, J=7.61, 1.65 Hz, 1 H) 7.12 (d, J=7.72 Hz, 1 H) 7.16 (d, J=5.07 Hz, 1 H)

#### PREPARATION 20

## N-methyl-1H-indole-6-sulfonamide

A mixture of *N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide (500 mg, 2.356 mmol) in 1,4-dioxane (5.889 mL) was treated with DDQ (802 mg, 3.53 mmol) and the reaction stirred for 1 h. The reaction was filtered and the filtrate loaded onto a SCX column (10 g, washed with MeOH followed by 2M ammonia in MeOH). The product eluted in the MeOH wash, and concentration of the appropriate fractions yielded *N*-methyl-1*H*-indole-6-sulfonamide (230 mg, crude) as a brown oil which was used as is as an intermediate.

#### **PREPARATION 21**

## 2-methyl-1,2,3,4-tetrahydro-7-isoquinolinamine

## Step 1. 2-methyl-7-nitro-1,2,3,4-tetrahydroisoquinoline

To a mixture of formaldehyde (26 mL, 944 mmol) and HCO<sub>2</sub>H (15 mL), was added 7-nitro-1,2,3,4-tetrahydroisoquinoline (6.32 g, 29.4 mmol). The mixture was heated at 100 °C for 4 h. The reaction was then cooled to rt, poured into ice, and basified to pH 11 with aq. ammonia. The gummy residue which precipitated was extracted with  $CH_2CI_2$  (2 x 150 mL). The combined organic extracts were dried over MgSO<sub>4</sub>, filtered, and concentrated *in vacuo*. The compound was loaded onto florisil and purified *via* flash column chromatography (ISCO, 120 g silica, 0-5% HCl/  $CH_2CI_2$ ) to give 2-methyl-7-nitro-1,2,3,4-tetrahydroisoquinoline (5 g, 84%) as an orange solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  7.95 - 8.00 (m, 2H), 7.39 (d, J = 8.81 Hz, 1H), 3.58 (s, 2H), 2.93 (t, J = 5.79 Hz, 2H), 2.62 (t, J = 5.92 Hz, 2H), 2.36 (s, 3H); MS (m/z) 193.1 (M+H)<sup>+</sup>.

## Step 2. 2-methyl-1,2,3,4-tetrahydro-7-isoguinolinamine

To a mixture of 2-methyl-7-nitro-1,2,3,4-tetrahydroisoquinoline (5 g, 26.0 mmol), in ethanol (87 mL), were added 10% Pd/C (2.77 g, 2.60 mmol) and HCO<sub>2</sub>•NH<sub>4</sub> (8.20 g, 130 mmol). The resulting mixture was then heated to 80 °C for 3 h. The reaction mixture was then cooled to rt, filtered through Celite<sup>®</sup>, and concentrated *in vacuo* to afford 2-methyl-1,2,3,4-tetrahydro-7-isoquinolinamine (3.2 g, 72%) as a tan solid. <sup>1</sup>H NMR (400 MHz, methanol-d<sub>4</sub>)  $\delta$  6.88 (d, J = 8.06 Hz, 1H), 6.58 (dd, J = 2.39, 8.18 Hz, 1H), 6.46 (d, J = 2.01 Hz, 1H), 3.51 (s, 2H), 2.82 (t, J = 5.92 Hz, 2H), 2.70 (t, J = 6.04 Hz, 2H), 2.43 (s, 3H); MS (m/z) 163.1 (M+H)<sup>†</sup>.

# PREPARATION 22

## 6-chloro-N-(3-methylphenyl)-4-pyrimidinamine

A mixture of dichloropyrimidine (0.556 g, 3.73 mmol) and 3-methyl aniline (0.200 g, 1.866 mmol) in isopropanol (1.678 mL) was heated in a microwave reactor at 150 °C for 10 min. The reaction was concentrated and the residue dissolved in  $CH_2CI_2$  and purified by silica solid phase extraction (5 g column, washed with  $CH_2CI_2$  and  $Et_2O$ ). Concentration of the ethereal fractions yielded 6-chloro-*N*-(3-methylphenyl)-4-pyrimidinamine (0.264 g, 61%) as a cream solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  9.81 (s, 1H), 8.48 (s, 1H), 7.38 - 7.46 (m, 2H), 7.25 (t, J = 7.65 Hz, 1H), 6.92 (d, J = 7.28 Hz, 1H), 6.79 (s, 1H), 2.31 (s, 3H); MS (m/z) 220.0 (M+H)<sup>†</sup>.

The following pyrimidinamines were prepared from 4,6-dichloropyrimidine and the aniline indicated using a procedure analogous to that described in Preparation 22:

Pyrimidinamine	Aniline	MS (m/z)
6-chloro- <i>N</i> -(3-chlorophenyl)-4-pyrimidinamine	3-chloroaniline	242.0
o-chloro-w-(3-chlorophenyr)-4-pyrimiamamine	3-CHOTOATHITIE	(M+H) <sup>+</sup>
6-chloro-N-(4-{[2-(methyloxy)ethyl]oxy}phenyl)-	4-{[2-(methyloxy)ethyl]oxy}aniline	280.0
4-pyrimidinamine	4-{[2-(methyloxy)ethyljoxy}aniinle	(M+H) <sup>+</sup>
6-chloro-N-(3,4-difluorophenyl)-4-	3,4-difluoroaniline	241.9
pyrimidinamine	5,4-dilidoloariiille	(M+H) <sup>+</sup>

3-[(6-chloro-4-pyrimidinyl)amino]-N-methyl-4-	3-amino-N-methyl-4-(2-methyl-1-	382.0
(2-methyl-1-pyrrolidinyl)benzenesulfonamide	pyrrolidinyl)benzenesulfonamide	(M+H) <sup>+</sup>
1-(6-chloro-4-pyrimidinyl)-N-methyl-2,3-	N-methyl-2,3-dihydro-1H-indole-	325.0
dihydro-1 <i>H</i> -indole-6-sulfonamide	6-sulfonamide	(M+H) <sup>+</sup>
5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro- <i>N</i> -	5-amino-2-fluoro-N-methyl-4-	
	[(2,2,2-	415.0
methyl-4-[(2,2,2-	trifluoroethyl)oxy]benzenesulfona	(M+H) <sup>+</sup>
trifluoroethyl)oxy]benzenesulfonamide	mide	
1-(6-chloro-4-pyrimidinyl)-N,3,3-trimethyl-2,3-	N,3,3-trimethyl-2,3-dihydro-1H-	352.9
dihydro-1 <i>H-</i> indole-6-sulfonamide	indole-6-sulfonamide	(M+H) <sup>+</sup>
2 I/G oblave 4 purimidicul/aminal A/ mathul 4	1,1-dimethylethyl [(3-amino-4-	
3-[(6-chloro-4-pyrimidinyl)amino]- <i>N</i> -methyl-4-	{[2,2,2-trifluoro-1-	424.9
[(2,2,2-trifluoro-1,1-	(trifluoromethyl)ethyl]oxy}phenyl)s	(M+H) <sup>+</sup>
dimethylethyl)oxy]benzenesulfonamide	ulfonyl]methylcarbamate	

## **PREPARATION 23**

6-chloro-N-(4-chlorophenyl)-4-pyrimidinamine hydrochloride

A mixture of 4,6 dichloropyrimidine (0.584 g, 3.92 mmol), 4-chloroaniline (0.250 g, 1.960 mmol) and a few drops of concentrated HCl in isopropanol (4.899 mL) was heated at 80 °C for 18 h. The reaction turned from a clear yellow solution to one containing a white precipitate. This precipitate was collected by filtration to give 6-chloro-*N*-(4-chlorophenyl)-4-pyrimidinamine hydrochloride (0.443 g, 82%). <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  10.33 (s, 1H), 8.50 (s, 1H), 7.69 - 7.78 (m, J = 8.78 Hz, 2H), 7.36 - 7.43 (m, 2H), 6.93 (s, 1H).

The following pyrimidinamines were prepared from 4,6-dichloropyrimidine and the aniline indicated using procedures analogous to that described in Preparation 23:

Pyrimidinamine	Aniline	Note	MS (m/z)
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide	3-amino- <i>N</i> -methylbenzene sulfonamide	t-BuOH used as solvent, p-TsOH can be substituted for HCI	299.0 (M+H) <sup>†</sup>
6-chloro- <i>N</i> -[4- (trifluoromethyl)phenyl]-4- pyrimidinamine hydrochloride	4-(trifluoromethyl)aniline		274.0 (M+H) <sup>+</sup>
<i>N</i> -(3-bromo-5-methylphenyl)-6-chloro-4-pyrimidinamine	3-bromo-5-methylaniline		299.9 (M+H) <sup>+</sup>
6-chloro- <i>N</i> -(3-fluorophenyl)-4- pyrimidinamine	3-fluoroaniline		224.0 (M+H) <sup>+</sup>
6-chloro- <i>N</i> -[4-(1- methylethyl)phenyl]-4- pyrimidinamine	[4-(1- methylethyl)phenyl]amine		248.1 (M+H) <sup>†</sup>
6-chloro- <i>N</i> -[3-chloro-4- (methyloxy)phenyl]-4- pyrimidinamine	3-chloro-4- (methyloxy)aniline		270.1 (M+H) <sup>†</sup>
6-chloro- <i>N</i> -[4-(2,2,2- trifluoroethyl)phenyl]-4- pyrimidinamine	4-(2,2,2- trifluoroethyl)aniline		288.0 (M+H) <sup>†</sup>
6-chloro- <i>N</i> -[4-(2,2,2- trifluoroethyl)phenyl]-4- pyrimidinamine	4-[(2,2,2- trifluoroethyl)oxy]aniline		304.0 (M+H) <sup>+</sup>
6-chloro- <i>N</i> -[4-(1 <i>H</i> -pyrazol-1-yl)phenyl]-4-pyrimidinamine	4-(1 <i>H</i> -pyrazol-1-yl)aniline		272.0 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- (methylthio)benzenesulfonamide	3-amino- <i>N</i> -methyl-4- (methylthio)benzenesulfona mide		345.0 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide	3-amino- <i>N</i> -methyl-4- (methyloxy)benzenesulfona mide		329.0 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]benzenesulfon amide	3-amino- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenes ulfonamide		397.0 (M+H) <sup>†</sup>

3-[(6-chloro-4- pyrimidinyl)amino]-4-(ethylthio)- <i>N</i> -methylbenzenesulfonamide	3-amino-4-(ethylthio)- <i>N</i> -methylbenzenesulfonamide	359.0 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- [(2- methylpropyl)thio]benzenesulfon amide	3-amino- <i>N</i> -methyl-4-[(2-methylpropyl)thio]benzenes ulfonamide	386.7 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]-4-[(1,1- dimethylethyl)thio]- <i>N</i> - methylbenzenesulfonamide	3-amino-4-[(1,1- dimethylethyl)thio]- <i>N</i> - methylbenzenesulfonamide	387.0 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- [(1- methylethyl)thio]benzenesulfona mide	3-amino- <i>N</i> -methyl-4-[(1-methylethyl)thio]benzenesul fonamide	372.9 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)thio]benzenesulfon amide	3-amino- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)thio]benzenes ulfonamide	413.0 (M+H) <sup>+</sup>
3-[(6-chloro-4- pyrimidinyl)amino]-4-fluoro- <i>N</i> - methylbenzenesulfonamide	3-amino-4-fluoro- <i>N</i> -methylbenzenesulfonamide	317.0 (M+H) <sup>+</sup>
4-chloro-3-[(6-chloro-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide	3-amino-4-chloro- <i>N</i> -methylbenzenesulfonamide	333.0 (M+H) <sup>+</sup>
5-[(6-chloro-4- pyrimidinyl)amino]-2-fluoro- <i>N</i> - methyl-4-[(2,2,2-trifluoro-1- methylethyl)oxy]benzenesulfona mide	5-amino-2-fluoro- <i>N</i> -methyl- 4-[(2,2,2-trifluoro-1- methylethyl)oxy]benzenesul fonamide	428.9 (M+H) <sup>+</sup>
5-[(6-chloro-4- pyrimidinyl)amino]-2-fluoro- <i>N</i> - methyl-4- (methylthio)benzenesulfonamide	5-amino-2-fluoro- <i>N</i> -methyl- 4- (methylthio)benzenesulfona mide	363.0 (M+H) <sup>†</sup>

#### PREPARATION 24

3-[(6-chloro-4-pyrimidinyl)amino]-4-(dimethylamino)-N-methylbenzenesulfonamide

A mixture of 4,6-dichloropyrimidine (0.065 g, 0.436 mmol), 3-amino-4-(dimethylamino)-*N*-methylbenzenesulfonamide (0.100 g, 0.436 mmol) and AgOTf (0.112 g, 0.436 mmol) in 1,4-dioxane (1.744 mL) was heated in a microwave reactor at 120 °C for 50 min in 10 min intervals. The reaction was filtered through Celite<sup>®</sup> and the filtrate loaded onto a SCX column (5 g, washed with MeOH and eluted with 2 M ammonia in MeOH). Concentration of the ammonia/MeOH fractions yielded a brown oil which was subsequently loaded onto a silica solid phase extraction column (5 g, eluted with CH<sub>2</sub>Cl<sub>2</sub>, 50:50 CH<sub>2</sub>Cl<sub>2</sub>:Et<sub>2</sub>O, then Et<sub>2</sub>O). Concentration of the appropriate fractions yielded 3-[(6-chloro-4-pyrimidinyl)amino]-4-(dimethylamino)-*N*-methylbenzenesulfonamide (0.071 g, 48%) as a white solid. <sup>1</sup>H NMR (400 MHz, DMSO-d<sub>6</sub>)  $\delta$  9.41 (s, 1H), 8.44 (s, 1H), 8.04 (s, 1H), 7.50 (dd, J = 2.01, 8.53 Hz, 1H), 7.31 (q, J = 4.94 Hz, 1H), 7.22 (d, J = 8.53 Hz, 1H), 6.89 (br. s., 1H), 2.73 (s, 6H), 2.42 (d, J = 5.02 Hz, 3H); MS (m/z) 341.9 (M+H)<sup>†</sup>.

The following intermediates were prepared from 4,6-dichloropyrimidine and the aniline indicated using procedures analogous to that described in Preparation 24:

Pyrimidinamine	Aniline	MS (m/z)
3-[(6-chloro-4-pyrimidinyl)amino]-4- (diethylamino)- <i>N</i> -methylbenzenesulfonamide	3-amino-4-(diethylamino)- <i>N</i> - methylbenzenesulfonamide	370.1 (M+H) <sup>+</sup>
3-[(6-chloro-4-pyrimidinyl)amino]-4-(2,5-	3-amino-4-(2,5-dimethyl-1-	396.1
dimethyl-1-pyrrolidinyl)-N-	pyrrolidinyl)- <i>N</i> -	(M+H) <sup>+</sup>
methylbenzenesulfonamide	methylbenzenesulfonamide	

#### **PREPARATION 25**

## 4-amino-N-[2-(methyloxy)ethyl]benzamide

Step 1: N-[2-(methyloxy)ethyl]-4-nitrobenzamide

A mixture of 4-nitrobenzoic acid (1 g, 5.98 mmol), 2-(methyloxy)ethanamine (618 μl, 7.17 mmol), HOBT (1.833 g, 11.97 mmol), DIPEA (2.090 mL, 11.97 mmol) and EDC (2.294 g, 11.97 mmol) in THF (27.200 mL) was heated to 90 °C for 1hr. The reaction mixture was concentrated and the residue purified by silica SPE (20 g, eluted with CH<sub>2</sub>Cl<sub>2</sub>, Et<sub>2</sub>O, MeOH). Concentration of the appropriate fractions yielded 1.76g of a yellow solid which was then partitioned between water and EtOAc. The organic layer was separated and concentrated to give *N*-[2-(methyloxy)ethyl]-4-nitrobenzamide (1.51 g, crude) which was used as is in the next step.

# Step 2: 4-amino-N-[2-(methyloxy)ethyl]benzamide

A solution of N-[2-(methyloxy)ethyl]-4-nitrobenzamide (1.51 g, 6.73 mmol) in ethanol (33.7 mL) and treated with HCO<sub>2</sub>•NH<sub>4</sub> (2.123 g, 33.7 mmol) and Pd/C (0.717 g, 0.673 mmol) then stirred at 40 °C for 2 h. The reaction mixture was filtered through Celite<sup>®</sup>, and the filtrate concentrated to give ~1g of a brown oil which was purified by silica SPE (20 g, eluted with Et<sub>2</sub>O, 50:50 Et<sub>2</sub>O:EtOAc; EtOAc) to give 4-amino-N-[2-(methyloxy)ethyl]benzamide (791mg, crude) as a yellow oil which was used as is in the next step.

# Step 3: 4-[(6-chloro-4-pyrimidinyl)amino]-N-[2-(methyloxy)ethyl]benzamide

A mixture of 4-amino-N-[2-(methyloxy)ethyl]benzamide (791 mg, 4.07 mmol),  $K_3PO_4$  (1.729 g, 8.15 mmol), 4,6-dichloropyrimidine (1213 mg, 8.14 mmol), Xantphos (94 mg, 0.163 mmol) and  $Pd_2(dba)_3$  (74.6 mg, 0.081 mmol) in 1,4-dioxane (20.4 mL) was

heated at 80 °C under reflux for 24 h. The reaction mixture was then concentrated to give a brown-orange oil, which was then partitioned between  $CH_2CI_2$ /water and separated by hydrophobic frit. The organic layers were concentrated to give ~1g orange oil. The residue was then loaded onto a silica SPE (20 g, eluted with  $CH_2CI_2$ , 25:75  $Et_2O:CH_2CI_2$ , 50:50  $CH_2CI_2:$   $Et_2O,$   $Et_2O$  and MeOH) to give 4-[(6-chloro-4-pyrimidinyl)amino]-*N*-[2-(methyloxy)ethyl]benzamide as an orange solid, (433 mg, 35%). MS (m/z) 307.0 (M+H) $^+$ .

# PREPARATION 26 1-(6-chloro-4-pyrimidinyl)-*N*-methyl-1*H*-benzimidazole-6-sulfonamide

#### Step 1: phenylmethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate

A solution of 4-fluoro-N-methyl-3-nitrobenzenesulfonamide (3.0 g, 12.8 mmol) in THF (30 mL) was treated with Et<sub>3</sub>N (1.3 g, 12.8 mmol) and then dropwise with phenylmethyl chloridocarbonate (3.27 g, 19.3 mmol) and the mixture stirred at rt for 3 h. The mixture was then concentrated and the residue partitioned between  $CH_2Cl_2$  and water, The organic was then collected and concentrated to give phenylmethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate (3 g, 64%) as a yellow solid. MS (m/z) 391.0  $(M+Na)^+$ .

## Step 2: phenylmethyl [(4-amino-3-nitrophenyl)sulfonyl]methylcarbamate

A solution of phenylmethyl [(4-fluoro-3-nitrophenyl)sulfonyl]methylcarbamate (3.0 g, 8.5 mmol) in THF (15 mL) was treated with ammonia/MeOH solution (7 M, 5.8 mL) and stirred at rt for 5 h. The reaction mixture was concentrated and the residue (2.8 g, yellow solid) taken on as is into the next step. MS (m/z) 388.1 (M+Na)<sup>+</sup>.

# Step 3: phenylmethyl [(3,4-diaminophenyl)sulfonyl]methylcarbamate

A suspension of phenylmethyl [(4-amino-3-nitrophenyl)sulfonyl]methylcarbamate (2.8 g, 7.7 mmol) and platinum oxide (174 mg, 0.77 mmol) in ethanol (40 mL) was stirred at rt under hydrogen balloon. The mixture was filtered through Celite® and concentrated to give phenylmethyl [(3,4-diaminophenyl)sulfonyl]methylcarbamate (2.7 g, 95%) as a brown oil. MS (m/z) 336.2 (M+H)<sup>+</sup>.

## Step 4: phenylmethyl (1*H*-benzimidazol-5-ylsulfonyl)methylcarbamate

A solution of phenylmethyl [(3,4-diaminophenyl)sulfonyl]methylcarbamate (2.5 g, 7.46 mmol) in formic acid (20 mL) was heated to 100 °C for 6 h. The reaction was then extracted with  $CH_2Cl_2$ . The aqueous layer was adjusted to pH 8 and extracted with  $CH_2Cl_2$ . The combined organics were then dried ( $Na_2SO_4$ ), concentrated and combined with material from a 100 mg trial scale reaction to give phenylmethyl (1*H*-benzimidazol-5-ylsulfonyl)methylcarbamate (2.1 g, 81 %) as a pink solid. MS (m/z) 346.0 (M+H)<sup>+</sup>

## Step 5: 1-(6-chloro-4-pyrimidinyl)-N-methyl-1H-benzimidazole-6-sulfonamide

A solution of phenylmethyl (1H-benzimidazol-5-ylsulfonyl)methylcarbamate (100 mg, 0.290 mmol) and 4,6-dichloropyrimidine (86 mg, 0.579 mmol) in DMF (1367  $\mu$ l) was treated with Et<sub>3</sub>N (81  $\mu$ l, 0.579 mmol) and heated in the microwave at 150 °C for 90 min. The reaction was diluted by the addition of EtOAc (5 mL) and water (5 mL). The organic layer was separated and concentrated to give a brown oil which was then purified by silica SPE (5 g, eluted with CH<sub>2</sub>Cl<sub>2</sub>, 50:50 CH<sub>2</sub>Cl<sub>2</sub>: Et<sub>2</sub>O, Et<sub>2</sub>O, EtOAc then MeOH). Concentration of the appropriate fractions gave 1-(6-chloro-4-pyrimidinyl)-N-methyl-1H-benzimidazole-6-sulfonamide (40 mg, 1:1 mix of regiosomers) that was used as is in the next step. MS (m/z) 324.0 (M+H) $^+$ .

# **PREPARATION 27**

# 4-amino-N-[2-(methyloxy)ethyl]benzamide

A mixture of 4,6-dichloropyrimidine (476 mg, 3.22 mmol, 6-bromo-4-methyl-2-pyridinamine (300 mg, 1.62 mmol, prepared according to procedures outlined in WO2005061496 and references therein),  $Pd_2(dba)_3$  (28 mg, 0.032 mmol), Xantphos (36 mg, 0.064 mmol) and potassium carbonate (670 mg, 4.89 mmol) in 1,4-dioxane (5 mL) was heated in the microwave at 130 °C for 1 h. The reaction mixture was then poured onto water and the resultant solid collected by filtration and then purified via flash column chromatography (silica gel, 10:1 to 5:1 petroleum  $Et_2O$ : EtOAc) to afford 4-amino-N-[2-(methyloxy)ethyl]benzamide (160 mg, 33%) as a white solid, MS (m/z) 300.9 (M+H) $^+$ .

# **PREPARATION 28**

6-chloro-*N*-(3,5-dichloro-2-pyridinyl)-4-pyrimidinamine

A mixture of 4,6-dichloropyrimidine (823 mg, 5.52 mmol), 3,5-dichloro-2-pyridinamine (450 mg, 2.76 mmol), Cs<sub>2</sub>CO<sub>3</sub> (2698 mg, 8.28 mmol), BINAP (68.8 mg, 0.110 mmol) and PdOAc<sub>2</sub> (24.79 mg, 0.110 mmol) was dissolved in 1,4-dioxane (6902 µl) and heated in the microwave at 150°C for 30 min. The reaction was then concentrated and the residue was then purified by silica SPE (20 g, eluted with 50-50 CH<sub>2</sub>Cl<sub>2</sub>:hexanes, CH<sub>2</sub>Cl<sub>2</sub>, 75-25 CH<sub>2</sub>Cl<sub>2</sub>: Et<sub>2</sub>O). Concentration of the appropriate fractions yielded 6-chloro-*N*-(3,5-dichloro-2-pyridinyl)-4-pyrimidinamine (126 mg, crude) as a yellow solid and a second batch of 6-chloro-*N*-(3,5-dichloro-2-pyridinyl)-4-pyrimidinamine (310 mg, crude) both batches were used as is in the next step.

The following analog was prepared from the stated pyridinamine and 4,6-dichloropyridine in a procedure analogous to that of Preparation 28:

Pyrimidinamine	Aniline	MS (m/z)
N-(5-bromo-6-methyl-2-pyridinyl)-6-chloro-4-	5-bromo-6-methyl-2-	299.9
pyrimidinamine	pyridinamine	(M+H) <sup>+</sup>

## PREPARATION 29

3-[(6-chloro-4-pyrimidinyl)amino]-N-methyl-4-(methylsulfonyl)benzenesulfonamide

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-N-methyl-4-(methylthio) benzenesulfonamide (5.0 g, 14.5 mmol) and sodium perborate tetrahydrate (7.76 g, 43.5 mmol) in AcOH (60 mL) was stirred at 50 °C. The mixture was filtered and the filtrate concentrated. The residue was then purified via flash chromatography to give 3-[(6-chloro-4-pyrimidinyl)amino]-N-methyl-4-(methylsulfonyl)benzenesulfonamide (2.1 g, 38%) as a white solid, MS (m/z) 376.9 (M+H) $^{+}$ .

The following examples were prepared from the stated sulphide using a procedure analogous to that detailed in Preparation 29:

Sulphone	Sulphide	MS (m/z)
3-[(6-chloro-4-pyrimidinyl)amino]-4- (ethylsulfonyl)- <i>N</i> - methylbenzenesulfonamide	3-[(6-chloro-4-pyrimidinyl)amino]-4- (ethylthio)- <i>N</i> - methylbenzenesulfonamide	390.9 (M+H) <sup>+</sup>
3-[(6-chloro-4-pyrimidinyl)amino]- <i>N</i> -methyl-4-[(1-methylethyl)sulfonyl]benzenesulfonami de	3-[(6-chloro-4-pyrimidinyl)amino]- <i>N</i> -methyl-4-[(1-methylethyl)thio]benzenesulfonamide	404.9 (M+H) <sup>†</sup>
3-[(6-chloro-4-pyrimidinyl)amino]-4- [(1,1-dimethylethyl)sulfonyl]- <i>N</i> - methylbenzenesulfonamide	3-[(6-chloro-4-pyrimidinyl)amino]-4- [(1,1-dimethylethyl)thio]- <i>N</i> - methylbenzenesulfonamide	419.1 (M+H) <sup>+</sup>

#### **EXAMPLE 1**

N-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide trifluoroacetate

A mixture of 6-chloro-*N*-(3-methylphenyl)-4-pyrimidinamine (0.264 g, 1.202 mmol), 3-amino-*N*-methylbenzenesulfonamide (0.224 g, 1.202 mmol) and HCl (0.037 mL, 1.202 mmol) in isopropanol (3.005 mL) was heated in a microwave reactor at 150 °C for 5 min. The reaction mixture was heated for an additional 10 min at 150 °C. Additional HCl (0.037 mL, 1.202 mmol) was added and the reaction heated for 10 min in the microwave reactor at 150 °C. The reaction was then concentrated and the residue dissolved in  $CH_2CI_2$  (added a few drops of MeOH to aid solubility) and purified by silica solid phase extraction column (10 g, washed with  $CH_2CI_2$ ,  $Et_2O$ , EtOAc and acetone). Concentration of the appropriate fractions yielded the crude product. Reverse phase HPLC purification then gave *N*-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino) benzenesulfonamide trifluoroacetate (0.089 g, 15%) as a cream colored solid.

The following compounds were prepared with procedures analogous to that described in Example 1 using the specified pyrimidine in either the free base or HCl salt form and 3-amino-*N*-methylbenzenesulfonamide:

Ex.	Name	Structure	Pyrimidine
2	3-({6-[(3-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	H S O NH NH OTFA	6-chloro- <i>N</i> -(3- chlorophenyl)-4- pyrimidinamine
3	N-methyl-3-{[6-(methylamino)-4- pyrimidinyl]amino}benzene- sulfonamide hydrochloride	THE PART OF THE PA	6-chloro- <i>N</i> -methyl-4- pyrimidinamine

4	3-{[6-(ethylamino)-4- pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide hydrochloride	THE SECTION AND THE SECTION AN	6-chloro- <i>N</i> -ethyl-4- pyrimidinamine
5	3,3'-(4,6- pyrimidinediyldiimino) <i>bis</i> ( <i>N</i> - methylbenzenesulfonamide) trifluoroacetate	TFA	4,6-dichloropyrimidine

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-(4-chlorophenyl)-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline using IPA or NMP as the solvent:

Ex.	Name	Structure	Aniline
6	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)-5- (dimethylamino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH NT STEA	3-amino-5- (dimethylamino)- <i>N</i> - methylbenzenesulfona mide
7	3-chloro-5-({6-[(4- chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide		3-amino-5-chloro- <i>N</i> -methylbenzenesulfonamide
8	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (propyloxy)benzenesulfonamide trifluoroacetate	ON NH NH TEA	3-amino- <i>N</i> -methyl-4- (propyloxy)benzenesul fonamide
9	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(ethyloxy)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	ONH N CI	3-amino-4-(ethyloxy)- N- methylbenzenesulfona mide
10	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2-methylpropyl)oxy]benzenesulfonamide trifluoroacetate	NH N N N TFA	3-amino- <i>N</i> -methyl-4- [(2- methylpropyl)oxy]benz enesulfonamide

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11	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1,2-dimethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN S O NH TFA	3-amino-4-[(1,2-dimethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide
12	4-chloro-3-({6-[(4- chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	HN S NH TFA	3-amino-4-chloro- <i>N</i> -methylbenzenesulfonamide
13	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]-benzenesulfonamide trifluoroacetate	O CF <sub>3</sub> NH N TFA	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]benz enesulfonamide
14	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclohexyloxy)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN S NH H TFA	3-amino-4- (cyclohexyloxy)- <i>N</i> - methylbenzenesulfona mide
15	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1-ethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN O NH TFA	3-amino-4-[(1- ethylpropyl)oxy]- <i>N</i> - methylbenzenesulfona mide
16	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- [(3,3,3-trifluoropropyl)oxy]- benzenesulfonamide trifluoroacetate	O CF <sub>3</sub> NH NH TFA	3-amino- <i>N</i> -methyl-4- [(3,3,3- trifluoropropyl)oxy]ben zenesulfonamide
17	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclopentyloxy)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	NH TFA	3-amino-4- (cyclopentyloxy)- <i>N</i> - methylbenzenesulfona mide

18	5-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-2-fluoro-4-methoxy- <i>N</i> - methylbenzenesulfonamide trifluoroacetate 3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- [methyl(2,2,2-	F O O O O O O O O O O O O O O O O O O O	5-amino-2-fluoro- <i>N</i> -methyl-4- (methyloxy)benzenesu Ifonamide  3-amino- <i>N</i> -methyl-4- [methyl(2,2,2-
	trifluoroethyl)amino]benzenesulfona mide trifluoroacetate	. TFA	trifluoroethyl)amino]be nzenesulfonamide
20	1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}- <i>N</i> ,3,3-trimethyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	THA CI	<i>N</i> ,3,3-trimethyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide
21	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamid e trifluoroacetate	NH N	3-amino- <i>N</i> -methyl-4- [(2,2,2-trifluoro-1- methylethyl)oxy]benze nesulfonamide
22	5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro- <i>N</i> -methyl-4-(2,2,2-trifluoroethoxy)benzenesulfonamide trifluoroacetate	F F F F F F F F F F F F F F F F F F F	5-amino-2-fluoro- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benz enesulfonamide
23	4-amino-3-({6-[(4- chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	HON NH2 NH N	3,4-diamino- <i>N</i> - methylbenzenesulfona mide
24	5-[6-(4-chloro-phenylamino)- pyrimidin-4-ylamino]-4- dimethylamino-2-fluoro- <i>N</i> -methyl- benzenesulfonamide	F N N N N N N N N N N N N N N N N N N N	5-amino-4- (dimethylamino)-2- fluoro- <i>N</i> - methylbenzenesulfona mide

25	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-piperidinyl)- <i>N</i> -methylbenzenesulfonamide trifluoracetate	F F NH	3-amino-4-(3,3- difluoro-1-piperidinyl)- <i>N</i> -methylbenzenesulfo Namide
26	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- {[2,2,2-trifluoro-1- (trifluoromethyl)ethyl]oxy}benzenes ulfonamide trifluoroacetate	H S NH F F CI	1,1-dimethylethyl [(3-amino-4-{[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]oxy}phenyl)sulfonyl]methylcarbamate

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-(3-fluorophenyl)-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
27	4-(dimethylamino)-3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	NH NH NTFA	3-amino-4- (dimethylamino)- <i>N</i> - methylbenzenesulfona mide
28	3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(4-morpholinyl)benzenesulfonamide trifluoroacetate	HN S NH NH NTFA	3-amino- <i>N</i> -methyl-4- (4- morpholinyl)benzenesu Ifonamide
29	1-{6-[(3-fluorophenyl)amino]-4- pyrimidinyl}- <i>N</i> -methyl-2,3-dihydro- 1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	HN SHOW N H TFA	N-methyl-2,3-dihydro- 1H-indole-6- sulfonamide
30	3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methyloxy)benzenesulfonamide trifluoroacetate	HN NH NH TFA	3-amino- <i>N</i> -methyl-4- (methyloxy)- benzenesulfonamide

The following compound was prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-[4-(1-methylethyl)phenyl]-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

N-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-	
methylethyl)phenyl]amino}-4- pyrimidinyl)amino]-4- (methylthio)benzenesulfonamide hydrochloride  methylethyl)phenyl]amino}-4- ulfonamide	

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-[3-chloro-4-(methyloxy)phenyl]-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
32	3-[(6-{[3-chloro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]benzenesulfonam ide hydrochloride	HONSIE OME  NH	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]ben zenesulfonamide
33	3-[(6-{[3-chloro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide trifluoroacetate	NH O OME OME	3-amino- <i>N</i> -methyl-4- (methyloxy)benzenes ulfonamide

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-(4-{[2-(methyloxy)ethyl]oxy}phenyl)-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
34	N-methyl-4-(methyloxy)-3-({6-[(4-{[2-(methyloxy)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamidehydrochloride	N N N N N N N N N N N N N N N N N N N	3-amino- <i>N</i> - methyl-4- (methyloxy)benz enesulfonamide

	N-methyl-3-({6-[(4-{[2-	.OCF.	3-amino- <i>N</i> -
	(methyloxy)ethyl]oxy}phenyl)amino]-4-		methyl-4-[(2,2,2-
35	pyrimidinyl}amino)-4-[(2,2,2-	, is , and	trifluoroethyl)oxy
	trifluoroethyl)oxy]benzenesulfonamide		]benzenesulfona
	trifluoroacetate	Ĥ .TFA	mide

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-[4-(2,2,2-trifluoroethyl)phenyl]-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
36	N-methyl-4-(methyloxy)-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	NH NCF3	3-amino- <i>N</i> -methyl-4- (methyloxy)benzene sulfonamide
37	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-[(6-{[4-(2,2,2- trifluoroethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfona mide trifluoroacetate	O CF <sub>3</sub> NH  CF <sub>3</sub> TFA	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]ben zenesulfonamide
38	N-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide trifluoroacetate	S CF <sub>3</sub> NH NH CF <sub>3</sub> .TFA	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)thio]be nzenesulfonamide

The following compound was prepared with procedures analogous to that described in Example 1 using 4-[(6-chloro-4-pyrimidinyl)amino]-*N*-[2-(methyloxy)ethyl]benzamide in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
	4-[(6-{[5-[(methylamino)sulfonyl]-	. 8	3-amino- <i>N</i> -
	2-(methylthio)phenyl]amino}-4-		methyl-4-
39	pyrimidinyl)amino]- <i>N</i> -[2-	NH O	(methylthio)ben
	(methyloxy)ethyl]benzamide		zenesulfonami
	trifluoroacetate	'' Ĥ .TFA	de

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-[4-(1*H*-pyrazol-1-yl)phenyl]-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
40	N-methyl-4-(methyloxy)-3-[(6-{[4- (1 <i>H</i> -pyrazol-1-yl)phenyl]amino}- 4- pyrimidinyl)amino]benzenesulfon	THE STATE OF THE S	3-amino- <i>N</i> -methyl- 4- (methyloxy)benzene sulfonamide
41	amide trifluoroacetate  N-methyl-3-[(6-{[4-(1H-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	TFA  O CF3  N N N N N N N N N N N N N N N N N N N	3-amino- <i>N</i> -methyl- 4-[(2,2,2- trifluoroethyl)oxy]be nzenesulfonamide

The following compound was prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-{4-[(2,2,2-trifluoroethyl)oxy]phenyl}-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
42	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-{[6-({4- [(2,2,2- trifluoroethyl)oxy]phenyl}amino)- 4- pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	O CF <sub>3</sub> NH  NH  NTFA	3-amino- <i>N</i> -methyl- 4-[(2,2,2- trifluoroethyl)oxy]be nzenesulfonamide

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-[4-(trifluoromethyl)phenyl]-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline in NMP as the solvent:

Ex.	Name	Structure	Aniline
43	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-[(6-{[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	O CF <sub>3</sub> NH CF <sub>3</sub> TFA	3-amino- <i>N</i> -methyl- 4-[(2,2,2- trifluoroethyl)oxy]be nzenesulfonamide

The following compounds were prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-(3,4-difluorophenyl)-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline using IPA or NMP as the solvent:

Ex.	Name	Structure	Aniline
44	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	NH NH F	3-amino-4-fluoro- <i>N</i> -methylbenzenesulfo namide
45	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide trifluoroacetate	H S O CF <sub>3</sub> NH NH NH TFA	3-amino- <i>N</i> -methyl- 4-[(2,2,2-trifluoro-1- methylethyl)oxy]ben zenesulfonamide
46	1-{6-[(3,4-difluorophenyl)amino]- 4-pyrimidinyl}- <i>N</i> ,3,3-trimethyl- 2,3-dihydro-1 <i>H</i> -indole-6- sulfonamide trifluoroacetate	TFA	N,3,3-trimethyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide

The following compound was prepared with procedures analogous to that described in Example 1 using N-(6-bromo-4-methyl-2-pyridinyl)-6-chloro-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
47	3-[6-(6-bromo-4-methyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-(2,2,2-trifluoro-ethoxy)-benzenesulfonamide trifluoroacetate	NH N	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]be nzenesulfonamide

The following compound was prepared with procedures analogous to that described in Example 1 using 6-chloro-*N*-(3,5-dichloro-2-pyridinyl)-4-pyrimidinamine in either the free base or HCl salt form and the specified aniline:

Ex.	Name	Structure	Aniline
48	3-({6-[(3,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate	HO CF <sub>3</sub> NH CI CI NH CI TFA	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]be nzenesulfonamide

**EXAMPLE 49** 

# 3-{[6-(3-biphenylylamino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide trifluoroacetate

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide (0.150 g, 0.447 mmol), 3-biphenylamine (0.151 g, 0.895 mmol) and conc. HCl (few drops) in isopropanol (1.119 mL) was heated in a microwave reactor at 150 °C for 20 min. The reaction mixture was concentrated and the residue partitioned between CH<sub>2</sub>Cl<sub>2</sub> and water. The organic layer was collected *via* hydrophobic frit, a precipitate was noted and collected by filtration. This material was dissolved in MeOH/DMSO and purified by reverse phase HPLC (20-65% CH<sub>3</sub>CN/H<sub>2</sub>O with 0.1% TFA). Concentration of the appropriate fractions

yielded 3-{[6-(3-biphenylylamino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide trifluoroacetate (0.165 g, 64%) as a white solid.

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
50	N-methyl-3-({6-[(4-methylphenyl)amino]-4-pyrimidinyl}amino)benzene sulfonamide hydrochloride	H NH	4-methylaniline
51	3-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}benzamide	H NH NH	3-aminobenzamide
52	3-({6-[(3-acetylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	TEA NH NH NH NH NH	1-(3- aminophenyl)ethanone
53	N-methyl-3-[(6-{[3- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	THE NOTE OF THE NAME OF THE NA	3-(methyloxy)aniline
54	N-(3-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}phenyl)acetamid e trifluoroacetate	THA OF THA	<i>N</i> -(3- aminophenyl)acetamide
55	N-methyl-3-{[6-(phenylamino)-4- pyrimidinyl]amino}benzene sulfonamide trifluoroacetate	H S NH NH NH TFA	aniline

56	4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}benzamide trifluoroacetate	NH NH <sub>2</sub>	4-aminobenzamide
57	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	THA NH	4-chloroaniline
58	N-methyl-3-[(6-{[3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	THE NOTE OF 3	3-(trifluoromethyl)aniline
59	N-methyl-3-({6-[(2-methyl-1,2,3,4-tetrahydro-7-isoquinolinyl)amino]-4-pyrimidinyl}amino)benzene sulfonamide trifluoroaceate	THA NH	2-methyl-1,2,3,4- tetrahydro-7- isoquinolinamine
60	3-({6-[(2-fluorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroaceate	NH F TFA	2-fluoroaniline
61	N-methyl-3-[(6-{[3-(4-morpholinylsulfonyl)phenyl]amino}-4-pyrimidinyl)amino]benzene sulfonamide trifluoroaceate	TFA	3-(4-morpholinylsulfonyl) aniline
62	3-{[6-({3- [(ethylamino)sulfonyl]phenyl}amino )-4-pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide trifluoroaceate	H N N N N N N N N N N N N N N N N N N N	3-amino- <i>N</i> - ethylbenzene- sulfonamide
63	N-methyl-3-[(6-{[3- (methylsulfonyl)phenyl]amino}-4- pyrimidinyl)amino]benzene sulfonamide trifluoroaceate	H NH NH NH NT	3-(methylsulfonyl)aniline

64	3-{[6-(1 <i>H</i> -indazol-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroaceate	H N N H N H TFA	1 <i>H</i> -indazol-6-amine
65	3-{[6-({3- [(methylamino)sulfonyl]phenyl}amin o)-4-pyrimidinyl]amino}- <i>N</i> - phenylbenzamide trifluoroaceate	THA THA	3-amino- <i>N</i> - phenylbenzamide
66	3-{[6-({3- [(dimethylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	THA NH	3-amino- <i>N,N</i> -dimethyl benzenesulfonamide
67	3-[(6-{[3- (aminosulfonyl)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	H NH	3-aminobenzene- sulfonamide
68	3-{[6-({3- [(methylamino)sulfonyl]phenyl}amin o)-4-pyrimidinyl]amino}- <i>N</i> -(1- methylethyl)benzenesulfonamide trifluoroacetate	TFA	3-amino- <i>N</i> -(1- methylethyl)benzene- sulfonamide
69	3-({6-[(4-acetylphenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	H O NH O O NT	1-(4-aminophenyl)- ethanone
70	N-methyl-3-[(6-{[4- (methylsulfonyl)phenyl]amino}-4- pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	H N N N N N N N N N N N N N N N N N N N	4-(methylsulfonyl)aniline
71	N-(4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}phenyl)acetamid e trifluoroacetate	NH NH NTFA	<i>N</i> -(4-aminophenyl)- acetamide

72	N-(3-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino} phenyl)propanamide trifluoroacetate	H S S S S S S S S S S S S S S S S S S S	<i>N-</i> (3-aminophenyl)- propanamide
73	4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - phenylbenzamide trifluoroacetate	HN OSS, ON NH OTFA	4-amino- <i>N</i> - phenylbenzamide
74	3-({6-[(1,1-dioxido-2,3-dihydro-1,2-benzisothiazol-6-yl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	TFA	2,3-dihydro-1,2- benzisothiazol-6-amine 1,1-dioxide
75	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1 <i>H</i> -indol-6-yl)amino]-4-pyrimidinyl}amino)benzene sulfonamide trifluoroacetate	TFA	6-amino-1,3-dihydro-2 <i>H</i> -indol-2-one
76	N-methyl-3-({6-[(2-methyl-1,3-benzothiazol-5-yl)amino]-4-pyrimidinyl}amino)benzene sulfonamide trifluoroacetate	H NH NH NTFA	2-methyl-1,3- benzothiazol-5-amine
77	N-methyl-3-({6-[(3- nitrophenyl)amino]-4- pyrimidinyl}amino)benzene sulfonamide trifluoroacetate	NH N	3-nitroaniline
78	N-methyl-3-[(6-{[4-(4-morpholinylcarbonyl)phenyl]amino} -4-pyrimidinyl)amino]benzene sulfonamide	H N N N N N N N N N N N N N N N N N N N	4-(4- morpholinylcarbonyl) aniline
79	N-methyl-4-{[6-({3- [(methylamino)sulfonyl]phenyl}amin o)-4-pyrimidinyl]amino}benzamide trifluoroacetate	H N H N H TFA	4-amino- <i>N</i> - methylbenzamide

80	3-{[6-(2,3-dihydro-1,4-benzodioxin-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	H NH NH NTFA	2,3-dihydro-1,4- benzodioxin-6-ylamine
81	N-methyl-3-[(6-{[4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]benzene sulfonamide hydrochloride	H N H HCI	4-(methyloxy)aniline
82	N-methyl-3-[(6-{[4-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzene sulfonamide hydrochloride	HCI NHCI	4-(4-morpholinyl)aniline
83	3-[(6-{[4-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	NH NH NTFA	4-(1,1- dimethylethyl)aniline
84	N-methyl-3-[(6-{[3-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzene sulfonamide	H N N N N N N N N N N N N N N N N N N N	3-(4-morpholinyl)aniline
85	3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidehydrochloride	N N N HCI	3-bromo-5-methylaniline
86	3-[(6-{[4- (dimethylamino)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide	H S N N N N N N N N N N N N N N N N N N	(4-aminophenyl) dimethylamine
87	3-[(6-{[3- (dimethylamino)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	TFA	(3-aminophenyl) dimethylamine

88	methyl 4-{[6-({3- [(methylamino)sulfonyl]phenyl}amin o)-4-pyrimidinyl]amino}benzoate	H NH NH	methyl 4-aminobenzoate
89	1-methylethyl 4-{[6-({3- [(methylamino)sulfonyl]phenyl}amin o)-4-pyrimidinyl]amino}benzoate trifluoroacetate	TFA	1-methylethyl 4- aminobenzoate
90	3-({6-[(4-chloro-3-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidehydrochloride	NH NH CI	4-chloro-3-methylaniline
91	3-({6-[(4-fluoro-3-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidehydrochloride	NH NH NH NHCI	4-fluoro-3-methylaniline
92	3-{[6-(1 <i>H</i> -indol-6-ylamino)-4- pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide	T Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1 <i>H</i> -indol-6-amine
93	N-methyl-3-{[6-({3- [(methylsulfonyl)amino]phenyl} amino)-4- pyrimidinyl]amino}benzene sulfonamide	H NH O'S'S	N-(3-aminophenyl) methanesulfonamide
94	N-methyl-3-({6-[(3-methyl-1 <i>H</i> -indazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide	The second secon	3-methyl-1 <i>H-</i> indazol-6- amine
95	3-({6-[(4-{[2- (diethylamino)ethyl]oxy}phenyl)ami no]-4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide	N N N N N N N N N N N N N N N N N N N	4-{[2-(diethylamino) ethyl]oxy}aniline

96	1-methylethyl [(3-{[6-({3- [(methylamino)sulfonyl]phenyl}amin o)-4- pyrimidinyl]amino}phenyl)oxy]aceta te trifluoroacetate	HN SO O O TFA	1-methylethyl [(3- aminophenyl)oxy]- acetate
97	3-{[6-(1,3-benzothiazol-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	NH NH S NTFA	1,3-benzothiazol-6- amine
98	3-{[6-(1 <i>H</i> -indol-5-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN SEO NH NH N	1 <i>H</i> -indol-5-amine
99	3-{[6-(1,3-benzothiazol-5-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN SEO	1,3-benzothiazol-5- amine
100	3-({6-[(3-fluoro-4- methylphenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH N	3-fluoro-4-methylaniline
101	3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	NH N	3-fluoroaniline
102	3-[(6-{[3-fluoro-4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetamide	F F F NH NH N N N N N N N N N N N N N N	3-fluoro-4- (trifluoromethyl)aniline

103	N-methyl-3-[(6-{[4-(methyloxy)-3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfona mide trifluoroacetate	F F F NH N N N N N N N N N N N N N N N N	4-methoxy-3- (trifluoromethyl)aniline
104	3-({6-[(4-chloro-3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	CI NH	4-chloro-3-fluoroaniline
105	3-[(6-{[3-fluoro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH N	3-fluoro-4- methoxyaniline
106	N-methyl-3-[(6-{[4-methyl-3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfona mide trifluoroacetate	F F F NH N N N N N N N N N N N N N N N N	4-methyl-3- (trifluoromethyl)aniline
107	3-[(6-{[4-chloro-3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	F F CI NH N N TFA	4-chloro-3- (trifluoromethyl)aniline
108	N-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	NH TFA	4-(2,2,2-trifluoroethyl)- phenylamine

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylthio)benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
109	N-methyl-4-(methylthio)-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide	S T Z T Z T T T T T T T T T T T T T T T	7-amino-3,4-dihydro- 2(1 <i>H</i> )-quinolinone
110	4-[(6-{[5-[(methylamino)sulfonyl]-2- (methylthio)phenyl]amino}-4- pyrimidinyl)amino]benzoic acid trifluoroacetate	S NH NH NH NH	4-aminobenzoic acid

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-(diethylamino)-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
	3-({6-[(4-chlorophenyl)amino]-4-	N	
	pyrimidinyl}amino)-4-	I N	
111	(diethylamino)- <i>N</i> -	O O NH	4-chloroaniline
	methylbenzenesulfonamide		
	trifluoroacetate	.TFA	

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-(2,5-dimethyl-1-pyrrolidinyl)-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)-4-(2,5-dimethyl-	N	
112	1-pyrrolidinyl)- <i>N</i> -	O N NH CI	4-chloroaniline
	methylbenzenesulfonamide	N H	
	trifluoroacetate	.HCI	

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(2-methyl-1-pyrrolidinyl)benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
113	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(2-methyl-1-pyrrolidinyl)benzenesulfonamide trifluoroacetate	NH NH CI	4-chloroaniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*,4-dimethylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
114	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> ,4- dimethylbenzenesulfonamide trifluoroacetate	HONS ON NH NH H	4-chloroaniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2-methylpropyl)thio]benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
115	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-4-(isobutylthio)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	S NH NH CI	4-chloroaniline

	4-(isobutylthio)-N-methyl-3-(6-(4-	⇒ .s. ↓	
	(trifluoromethyl)phenylamino)pyrim	HO NH F.	
116	idin-4-	O N F	A // '7
	ylamino)benzenesulfonamide	N N N	4-(trifluoromethyl)aniline
	trifluoroacetate	.TFA	
	4-(isobutylthio)-3-(6-(4-	⇒ .s. ↓	
	isopropylphenylamino)pyrimidin-4-	HO NH	
117	ylamino)- <i>N</i> -	O NH	4-(1-methylethyl)aniline
	methylbenzenesulfonamide	N N	
	trifluoroacetate	.TFA	

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
118	3-{[6-({4- [(difluoromethyl)oxy]phenyl}amin o)-4-pyrimidinyl]amino}-N-methyl- 4-[(2,2,2- trifluoroethyl)oxy]benzenesulfona mide trifluoroacetate	O CF <sub>3</sub> NH O NH O F F	4- [(difluoromethyl)oxy]anili ne
119	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-{[6-({4- [(trifluoromethyl)oxy]phenyl}amin o)-4- pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	O CF <sub>3</sub> NH  NH  N H  TFA	4- [(trifluoromethyl)oxy]anili ne
120	3-({6-[(3,4-difluorophenyl)amino]- 4-pyrimidinyl}amino)- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]benzenesulfona mide hydrochloride	HO CF <sub>3</sub> NH NH HCI	3,4-difluoroaniline

	3-({6-[(4-cyanophenyl)amino]-4-	O_CF <sub>3</sub>	
	pyrimidinyl}amino)-N-methyl-4-	HO NH	
121	[(2,2,2-	O N CN	4-aminobenzonitrile
	trifluoroethyl)oxy]benzenesulfona	N N	
	mide trifluoroacetate	.TFA	

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-(ethylthio)-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
122	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-4-(ethylthio)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH CI NH CI NH	4-chloroaniline
123	4-(ethylthio)- <i>N</i> -methyl-3-(6-(4- (trifluoromethyl)phenylamino)pyrim idin-4- ylamino)benzenesulfonamide trifluoroacetate	HO NH F F F F F F F F F F F F F F F F F F	4-(trifluoromethyl)aniline
124	4-(ethylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HO NH NH NH TFA	4-(1-methylethyl)aniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
	3-(6-(4-	S F	
	chlorophenylamino)pyrimidin-4-	HO NH	
125	ylamino)-N-methyl-4-(2,2,2-	O N CI	4-chloroaniline
	trifluoroethylthio)benzenesulfonami	N N N	
	de trifluoroacetate	.TFA	

126	N-methyl-4-(2,2,2- trifluoroethylthio)-3-(6-(4- (trifluoromethyl)phenylamino)pyrim idin-4- ylamino)benzenesulfonamide trifluoroacetate	S F F F F F F F F F F F F F F F F F F F	4-(trifluoromethyl)aniline
127	3-(6-(4- isopropylphenylamino)pyrimidin-4- ylamino)- <i>N</i> -methyl-4-(2,2,2- trifluoroethylthio)benzenesulfonami de trifluoroacetate	S F F F NH	4-(1-methylethyl)aniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-fluoro-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
128	4-fluoro- <i>N</i> -methyl-3-{[6-({4- [(trifluoromethyl)oxy]phenyl}amino) -4- pyrimidinyl]amino}benzenesulfona mide trifluoroacetate	HONS NH	4-[(trifluoromethyl)oxy] aniline
129	3-{[6-({4- [(difluoromethyl)oxy]phenyl}amino) -4-pyrimidinyl]amino}-4-fluoro- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	HON NH NH NH NT NH NT NH NT NH	4-[(difluoromethyl)oxy] aniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 4-chloro-3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
130	4-chloro- <i>N</i> -methyl-3-[(6-{[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfona mide trifluoroacetate	CI NH SS O NH FF F	4-(trifluoromethyl)aniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
131	3-({6-[(4-cyanophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methylsulfonyl)benzenesulfonami de trifluoroacetate	O S NH NH N N N N N N N N N N N N N N N N	4-aminobenzonitrile
132	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonami de trifluoroacetate	DO S NH NH N H F	3,4-difluoroaniline
133	3-(6-(1 <i>H</i> -indazol-5- ylamino)pyrimidin-4-ylamino)- <i>N</i> - methyl-4- (methylsulfonyl)benzenesulfonami de	N N N N N N N N N N N N N N N N N N N	1 <i>H</i> -indazol-5-amine
134	3-(6-(4- (cyanomethyl)phenylamino)pyrimid in-4-ylamino)- <i>N</i> -methyl-4- (methylsulfonyl)benzenesulfonami de		(4- aminophenyl)acetonitrile

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-[(1,1-dimethylethyl)sulfonyl]-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
135	4-( <i>tert</i> -butylsulfonyl)-3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	NH N	4-chloroaniline

The following compounds were prepared with procedures analogous to that described in Example 49 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoro-1,1-dimethylethyl)oxy]benzenesulfonamide the stated pyrimidine as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
	3-({6-[(4-chlorophenyl)amino]-4-	OCF3	
	pyrimidinyl}amino)-N-methyl-4-	H NH NH	
136	[(2,2,2-trifluoro-1,1-	CI	4-chloroaniline
	dimethylethyl)oxy]benzenesulfona	N N	
	mide	н	

### **EXAMPLE 137**

 $3-(\{6-[(3-bromophenyl)amino]-4-pyrimidinyl\}amino)-\textit{N}-methylbenzenesulfonamide$ 

To a solution of 3-( $\{6-[(3-bromophenyl)amino\}-4-pyrimidinyl\}amino)-N-methylbenzenesulfonamide (15 g, 50 mmol) and 3-bromoaniline (7.8 g, 43 mmol) in isoamylalcohol (10 mL), HCl (3 mL of a 2 M solution, 6 mmol) was added. The resulting mixture was then heated to reflux for 6 h. The mixture was cooled and quenched with NH<sub>4</sub>OH and water and stirred for 30 min by which time a precipitate had formed. The precipitate was filtered, washed with hexanes, and dried to give 3-(<math>\{6-[(3-bromophenyl)amino\}-4-pyrimidinyl\}amino)-N-methylbenzenesulfonamide (17.5 g, 93%) as a yellow solid.$ 

The following compound was prepared with a procedure analogous to that described in Example 137 using the specified pyrimidine and the appropriate aniline:

Ex.	Name	Structure	Pyrimidine
	3-({6-[(3-bromo-4-	н	3-[(6-chloro-4-
138	chlorophenyl)amino]-4-	NH Br	pyrimidinyl)amino]-N-
	pyrimidinyl}amino)-N-		methylbenzene-
	methylbenzenesulfonamide	N H	sulfonamide

**EXAMPLE 139** 

3-[(6-{[3,4-bis(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl-4-(methylthio)benzenesulfonamide trifluoroacetate

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylthio) benzenesulfonamide (140 mg, 0.406 mmol) and 3,4-bis(methyloxy)aniline (61 mg, 0.406 mol) in isopropanol (10 mL) and a few drops of conc.HCl were heated at reflux for 12 h. The mixture was then concentrated and purified by preparative HPLC to give 3-[(6-{[3,4-bis(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl-4-(methylthio) benzenesulfonamide trifluoroacetate (38 mg, 46%) as a white solid.

The following compounds were prepared with procedures analogous to that described in Example 139 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylthio) benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
	N-methyl-4-methylsulfanyl-3-[6-	S S	
	(3,4,5-trimethoxy-phenylamino)-	HN S NH	2.4.5
140	pyrimidin-4-ylamino]-		3,4,5-
	benzenesulfonamide	N N N	tris(methyloxy)aniline
	trifluoroacetate	.TFA	

pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-{6-(4-cyano-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-{6-(benzo[1,3]dioxol-5-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-{6-(benzothiazol-6-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  N-methyl-3-{6-(2-methyl- benzenesulfonamide trifluoroacetate  N-methyl-3-{6-(2-methyl- benzothiazol-5-ylamino)-pyrimidin- 4-ylamino]-4-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-{6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-{6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-{6-(3-chloro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3,4-difluoroaniline  3,4-difluoroaniline		3-[6-(3,5-dimethoxy-phenylamino)-		
methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(4-cyano-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(benzo[1,3]dioxol-5-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(benzofhiazol-6-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl- benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-d-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide			ON NH NH	3,5-
benzenesulfonamide trifluoroacetate  3-[6-(4-cyano-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(benzo[1,3]dioxol-5-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(benzothiazol-6-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl-benzothiazol-5-ylamino)- pyrimidin-4-ylamino]-N-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide  147 methylsulfanyl- benzenesulfonamide  148 methylsulfanyl- benzenesulfonamide  149 methylsulfanyl- benzenesulfonamide  140 methylsulfanyl- benzenesulfonamide  141 methylsulfanyl- benzenesulfonamide  142 methylsulfanyl- benzenesulfonamide  143 methylsulfanyl- benzenesulfonamide  144 methylsulfanyl- benzenesulfonamide	141			
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3-[6-(benzo[1,3]dioxol-5-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(benzothiazol-6-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl- benzothiazol-5-ylamino)-pyrimidin- 4-ylamino]-A-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide			HN ST V N V N V	
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benzenesulfonamide trifluoroacetate  3-[6-(benzothiazol-6-ylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl- benzothiazol-5-ylamino)-pyrimidin- 4-ylamino]-4-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide  3-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide  3-(3,4-difluoroaniline)  3-(3,4-difluoroaniline)	143	methylsulfanyl-	HN S NH	•
trifluoroacetate  3-[6-(benzothiazol-6-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl- benzothiazol-5-ylamino)-pyrimidin- 4-ylamino]-4-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  3-(3,4-difluoroaniline)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  3-(4-difluoroaniline)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide		benzenesulfonamide		ylamine
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benzenesulfonamide trifluoroacetate  N-methyl-3-[6-(2-methyl- benzothiazol-5-ylamino)-pyrimidin- 4-ylamino]-4-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide  3,4-difluoroaniline	144	methylsulfanyl-		
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benzothiazol-5-ylamino)-pyrimidin- 4-ylamino]-4-methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide  147 methylsulfanyl- benzenesulfonamide  3,4-difluoroaniline		trifluoroacetate	.TFA N=	
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benzenesulfonamide trifluoroacetate  3-[6-(3-chloro-4-hydroxy- phenylamino)-pyrimidin-4- ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]-N-methyl-4- methylsulfanyl- benzenesulfonamide  147 methylsulfanyl- benzenesulfonamide  3-[4-difluoroaniline	145	4-ylamino]-4-methylsulfanyl-		•
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methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  4-amino-2-chlorophenol  4-amino-2-chlorophenol  3-[A-difluoro-phenylamino]- N-methyl-4- methylsulfanyl- benzenesulfonamide  3,4-difluoroaniline		phenylamino)-pyrimidin-4-	s N H	
methylsulfanyl- benzenesulfonamide trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  147  methylsulfanyl- benzenesulfonamide  3,4-difluoroaniline	146	ylamino]- <i>N</i> -methyl-4-		1 amino 2 ablaranhanal
trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- and the state of the st	146	methylsulfanyl-	HN SO	4-amino-2-chiorophenoi
trifluoroacetate  3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  3,4-difluoroaniline		benzenesulfonamide	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide  pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl-  JIFA  3,4-difluoroaniline		trifluoroacetate		
methylsulfanyl- benzenesulfonamide  3,4-difluoroaniline		3-[6-(3,4-difluoro-phenylamino)-	\	
benzenesulfonamide    Solution	147	pyrimidin-4-ylamino]-N-methyl-4-	s N H	
benzenesulfonamide		methylsulfanyl-	ON TEA F	3,4-difluoroaniline
trifluoroacetate		benzenesulfonamide		
		trifluoroacetate		

148	N-methyl-4-methylsulfanyl-3-[6-(4-morpholin-4-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide ditrifluoroacetate	TFA  O  N  N  N  N  N  N  N  N  N  N  N  N	4-(4-morpholinyl)aniline
149	3-[6-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	S N H H O O O O O O O O O O O O O O O O O	2,3-dihydro-1,4- benzodioxin-6-ylamine
150	N-methyl-4-methylsulfanyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	O S N H H	4-(1-piperidinyl)aniline
151	3-[6-(3-ethynyl-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	O S N H H H H H H H H H H H H H H H H H H	3-ethynylaniline
152	3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	NH NH CI CI OH	4-amino-2,6- dichlorophenol
153	N-methyl-4-methylsulfanyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamidetrifluoroacetate	TFA NH S NH	3-(2-methyl-1,3-thiazol- 4-yl)aniline
154	3-(6-(3-methoxy-5- (trifluoromethyl)phenylamino)pyrim idin-4-ylamino)- <i>N</i> -methyl-4- (methylthio)benzenesulfonamide trifluoroacetate	NH NH NH NH	3-(methyloxy)-5- (trifluoromethyl)aniline

155	3-[6-(1 <i>H</i> -indol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	NH NH NH NH	1 <i>H-</i> indol-5-amine
156	N-methyl-4-methylsulfanyl-3-[6- (quinolin-6-ylamino)-pyrimidin-4- ylamino]-benzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	6-quinolinamine
157	3-[6-(3-chloro-4-cyano-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	4-amino-2- chlorobenzonitrile
158	N-methyl-4-methylsulfanyl-3-[6-(4-[1,2,4]triazol-4-ylmethyl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	4-(4 <i>H</i> -1,2,4-triazol-4- ylmethyl)aniline
159	3-[6-(1 <i>H</i> -indazol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	1 <i>H-</i> indazol-5-amine
160	3-[6-(1 <i>H</i> -indol-6-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	O S O TFA	1 <i>H-</i> indol-6-amine
161	N-methyl-4-(methylthio)-3-(6-(4- (piperazin-1- yl)phenylamino)pyrimidin-4- ylamino)benzenesulfonamide trifluoroacetate	TFA  NH  NH  NH  NH	4-(1-piperazinyl)aniline

162	N-methyl-3-(6-(4-methyl-2-oxo-1,2-dihydroquinolin-7-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide trifluoroacetate	HN SO NH NH NH O	7-amino-4-methyl-2(1 <i>H</i> )- quinolinone
163	3-(6-(1-acetylindolin-6- ylamino)pyrimidin-4-ylamino)- <i>N</i> - methyl-4- (methylthio)benzenesulfonamide trifluoroacetate	HN O NH	1-acetyl-2,3-dihydro-1 <i>H</i> - indol-6-amine
164	N-methyl-3-[6-(2-methyl-4-oxo-4H-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	7-amino-2-methyl-4 <i>H</i> - chromen-4-one
165	3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	(4- aminophenyl)acetonitrile
166	N-methyl-4-methylsulfanyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	HN S N N TFA	6-amino-3,4-dihydro- 1(2 <i>H</i> )-naphthalenone
167	N-methyl-4-methylsulfanyl-3-[6-(3,4,5-trifluoro-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	S N N F F	3,4,5-trifluoroaniline
168	N-methyl-3-[6-(4-methyl-2-oxo-2H-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	ON S N N NH NH NH NH NTFA	7-amino-4-methyl-2 <i>H-</i> chromen-2-one

169	3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-4-methylsulfanyl-benzenesulfonamidetrifluoroacetate	NH NH NH	2,3-dihydro-1 <i>H</i> -inden-5- ylamine
170	3-[6-(1 <i>H</i> -indazol-6-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	S NH NH NH HN NH	1 <i>H-</i> indazol-6-amine
171	N-methyl-3-(6-(2-methyl-1,3-dioxoisoindolin-5-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide trifluoroacetate	HN S NH NH NT	5-amino-2-methyl-1 <i>H</i> -isoindole-1,3(2 <i>H</i> )-dione

The following compounds were prepared with procedures analogous to that described in Example 139 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
172	3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN TFA	3,5- bis(methyloxy)aniline
173	N-methyl-3-[6-(3,4,5-trimethoxy-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	O S S O N N N N N N N N N N N N N N N N	3,4,5- tris(methyloxy)aniline
174	3-[6-(3-ethynyl-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	ON NO N	3-ethynylaniline
175	3-[6-(benzo[1,3]dioxol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	OSS N N N	1,3-benzodioxol-5- ylamine

176	3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	OSSO NEW CI	4-amino-2-chlorophenol
177	3-[6-(3,4-difluoro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	O S S O N N N F F	3,4-difluoroaniline
178	N-methyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide ditrifluoroacetate	CSS N N N N N N N N N N N N N N N N N N	4-(1-piperidinyl)aniline
179	3-[6-(4-cyano-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	O S S N N N N N N N N N N N N N N N N N	4-aminobenzonitrile
180	N-methyl-3-[6-(2-methyl-4-oxo-4H-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	NH N NH	7-amino-2-methyl-4 <i>H</i> - chromen-4-one
181	3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	N .TFA	4-amino-2,6- dichlorophenol
182	N-methyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamide trifluoroacetate	N NH S TFA	3-(2-methyl-1,3-thiazol- 4-yl)aniline
183	3-[6-(1 <i>H</i> -indazol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	OH NH	1 <i>H-</i> indazol-5-amine

184	N-methyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	N N N N N N N N N N N N N N N N N N N	6-amino-3,4-dihydro- 1(2 <i>H</i> )-naphthalenone
185	3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	(4- aminophenyl)acetonitrile
186	N-methyl-3-[6-(4-methyl-2-oxo-2 <i>H</i> -chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	7-amino-4-methyl-2 <i>H</i> - chromen-2-one
187	3-[6-(1-acetyl-2,3-dihydro-1 <i>H</i> -indol-6-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	N N NH NH NH NH	1-acetyl-2,3-dihydro-1 <i>H</i> -indol-6-amine
188	3-[6-(3-methoxy-5-trifluoromethyl-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	F F N N S S S S S S S S S S S S S S S S	3-(methyloxy)-5- (trifluoromethyl)aniline
189	N-methyl-3-[6-(4-methyl-2-oxo-1,2-dihydro-quinolin-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	NH NH NH NH	7-amino-4-methyl-2(1 <i>H</i> )- quinolinone
190	N-methyl-3-[6-(3,4,5-trifluoro- phenylamino)-pyrimidin-4- ylamino]-benzenesulfonamide hydrochloride	N N N N N N N N N N N N N N N N N N N	3,4,5-trifluoroaniline
191	3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	.TFA	2,3-dihydro-1 <i>H</i> -inden-5- ylamine

The following compounds were prepared with procedures analogous to that described in Example 139 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(1-methylethyl)sulfonyl]benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
192	3-[6-(4-chloro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- (propane-2-sulfonyl)- benzenesulfonamide	NH NH NH NH NH	4-chloro-aniline

The following compounds were prepared with procedures analogous to that described in Example 139 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
193	3-(6-(3-bromo-5-methylphenylamino)pyrimidin-4-ylamino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide	NH N	3-bromo-5-methylaniline
194	3-(6-(1 <i>H</i> -indol-6- ylamino)pyrimidin-4- ylamino)- <i>N</i> -methyl-4- (methylsulfonyl)benzenesulf onamide	N N N N N N N N N N N N N N N N N N N	1 <i>H</i> -indol-6-amine
195	3-(6-(3- ethynylphenylamino)pyrim idin-4-ylamino)- <i>N</i> -methyl- 4- (methylsulfonyl)benzenes ulfonamide		3-ethynylaniline

196	3-[6-(indan-5-ylamino)- pyrimidin-4-ylamino]-4- methanesulfonyl- <i>N</i> -methyl- benzenesulfonamide		2,3-dihydro-1 <i>H</i> -inden-5- ylamine
197	3-[6-(benzothiazol-6- ylamino)-pyrimidin-4- ylamino]-4-methanesulfonyl- N-methyl- benzenesulfonamide		1,3-benzothiazol-6- amine
198	4-methanesulfonyl- <i>N</i> -methyl- 3-[6-(5-oxo-5,6,7,8- tetrahydro-naphthalen-2- ylamino)-pyrimidin-4- ylamino]- benzenesulfonamide		6-amino-3,4-dihydro- 1(2 <i>H</i> )-naphthalenone
199	N-methyl-3-(6-(2- methylbenzo[d]thiazol-5- ylamino)pyrimidin-4- ylamino)-4- (methylsulfonyl)benzenesulf onamide	NH N	2-methyl-1,3- benzothiazol-5-amine
200	N-methyl-4-(methylsulfonyl)-3-[(6-{[4-(1H-1,2,4-triazol-1-ylmethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenes ulfonamide	HN NH N	4-(1 <i>H</i> -1,2,4-triazol-1- ylmethyl)aniline
201	3-[6-(1 <i>H</i> -indol-5-ylamino)- pyrimidin-4-ylamino]-4- methanesulfonyl- <i>N</i> -methyl- benzenesulfonamide		1 <i>H</i> -indol-5-amine
202	4-methanesulfonyl- <i>N</i> -methyl- 3-[6-(2-methyl-4-oxo-4 <i>H</i> - chromen-7-ylamino)- pyrimidin-4-ylamino]- benzenesulfonamide		7-amino-2-methyl-4 <i>H-</i> chromen-4-one

The following compound was prepared with the procedure analogous to that described in Example 139 using 5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
203	5-({6-[(4- chlorophenyl)amino]-4- pyrimidinyl}amino)-2-fluoro- <i>N</i> - methylbenzenesulfonamide	T Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	4-chloro-aniline

The following compound was prepared with the procedure analogous to that described in Example 139 using 5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
204	5-(6-(4- chlorophenylamino)pyrimidin -4-ylamino)-2-fluoro- <i>N</i> - methyl-4-(1,1,1- trifluoropropan-2- yloxy)benzenesulfonamide	F S S S S S S S S S S S S S S S S S S S	4-chloro-aniline

## **EXAMPLE 205**

1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide hydrochloride

A mixture of 6-chloro-*N*-(4-chlorophenyl)-4-pyrimidinamine (0.250 g, 1.041 mmol), *N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide (0.221 g, 1.041 mmol) and a few drops of HCl and isopropanol (2.083 mL) was heated in a microwave reactor at 150 °C for 30 min.

The reaction was filtered, washed with  $Et_2O$  and the solid collected to afford 1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-N-methyl-2,3-dihydro-1H-indole-6-sulfonamide hydrochloride (0.360 g, 73%) as an off-white solid.

### EXAMPLE 206

3-[(6-{[3,4-bis(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-N-methylbenzenesulfonamide trifluoroacetate

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide (0.150 g, 0.502 mmol) and 3,4-*bis*(methyloxy)aniline (0.096 g, 0.648 mmol) in NMP (1.255 mL) was treated with a few drops of concentrated HCl and heated in a microwave reactor at 150 °C for 20 min. Additional aniline (0.038 g, 0.251 mmol) was added and the mixture heated 10 min at 150 °C. Reactions were filtered and purified *via* reverse phase HPLC (Waters, Sunfire 30 x 100 mm column, 10-90% CH<sub>3</sub>CN /Water with 0.1% TFA) to afford 3-[(6-{[3,4-*bis*(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl benzenesulfonamide trifluoroacetate (0.184 g, 65%) as a brown solid.

The following compounds were prepared with procedures analogous to that described in Example 206 using the specified 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzene-sulfonamide as either the free base, TFA, or HCl salt and the appropriate aniline:

Ex.	Name	Structure	Aniline
207	3-({6-[(3,4-dichlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	TEA CI CI -TEA	3,4-dichloroaniline

208	3-({6-[(3,4-dimethylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate <i>N</i> -methyl-3-[(6-{[3-(1-dimethyl-3-[(4-(4-(4-(4-(4-(4-(4-(4-(4-(4-(4-(4-(4-(	NH NTFA	3,4-dimethylaniline
209	methylethyl)phenyl]amino}-4- pyrimidinyl)amino] benzenesulfonamide	THE STATE OF THE S	3-(1- methylethyl)aniline
210	3-[(6-{[3-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	TFA	3-(1,1- dimethylethyl)aniline
211	3-[(6-{[3- (ethyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	H N N N N N N N N N N N N N N N N N N N	3-(ethyloxy)aniline
212	3-({6-[(4-fluorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	H NH NH TFA	4-fluoroaniline
213	N-methyl-3-[(6-{[3-(1-pyrrolidinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	TEA NO STEAM	3-(1- pyrrolidinyl)aniline
214	N-methyl-3-[(6-{[3-(4-methyl-1-piperazinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	TFA	3-(4-methyl-1- piperazinyl)aniline
215	3-({6-[(3,5-dichlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	NH CI CI TEA	3,5-dichloroaniline

216	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1 <i>H</i> -indol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfon amide trifluoroacetate	HN SO NH NH NTFA	5-amino-1,3-dihydro- 2 <i>H-</i> indol-2-one
217	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1,3-benzoxazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfon amide trifluoroacetate	N N N N N N N N N N N N N N N N N N N	6-amino-1,3- benzoxazol-2(3 <i>H</i> )-one
218	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1 <i>H</i> -benzimidazol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfon amide trifluoroacetate	THA NATIONAL TEA	5-amino-1,3-dihydro- 2 <i>H</i> -benzimidazol-2- one
219	N-methyl-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfon amide trifluoroacetate	H N N N N N N N N N N N N N N N N N N N	7-amino-3,4-dihydro- 2(1 <i>H</i> )-quinolinone
220	3-({6-[(3-bromo-5-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	NH Br Ci TFA	3-bromo-5- chloroaniline
221	3-({6-[(3,5-dimethylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	NH NH NTFA	3,5-dimethylaniline
222	N-methyl-3-{[6-({4- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	THE A	4-amino- <i>N</i> - methylbenzenesulfona mide
223	N-methyl-3-[(6-{[3-(1-pyrrolidinylmethyl)phenyl] amino}-4- pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	HN S N N N N N N N N N N N N N N N N N N	3-(1- pyrrolidinylmethyl)anili ne

224	N-methyl-3-({6-[(4-{[2-(4-morpholinyl)ethyl]oxy}phenyl) amino]-4-pyrimidinyl}amino)benzenesulfon amide trifluoroacetate	HN NH NTFA	4-{[2-(4- morpholinyl)ethyl]oxy} aniline
225	3-({6-[(4-{[2- (dimethylamino)ethyl]oxy}phenyl) amino]-4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH NH NH NH NTFA	4-{[2- (dimethylamino)ethyl]o xy}aniline
226	N-methyl-3-{[6-({3-[(4-methyl-1-piperazinyl)methyl]phenyl} amino)-4-pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	HN OS ON N	3-[(4-methyl-1- piperazinyl)methyl]anil ine
227	N-methyl-3-[(6-{[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	NH CF <sub>3</sub>	4- (trifluoromethyl)aniline
228	N-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	H NH NH NTFA	4-(1- methylethyl)aniline
229	N-methyl-3-{[6-({4-[(1-methylethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	NH NH OTFA	4-[(1- methylethyl)oxy]anilin e
230	3-{[6-({4- [(difluoromethyl)oxy]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH NH NTFA	4- [(difluoromethyl)oxy]a niline
231	N-methyl-3-[(6-{[4-(2-oxo-1-pyrrolidinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	HN NH NH NTFA	1-(4-aminophenyl)-2- pyrrolidinone

	2 (/6 (/2 ablaza 4	T	
	3-[(6-{[3-chloro-4-	н	
222	(methyloxy)phenyl]amino}-4-	N, S, NH	3-chloro-4-
232	pyrimidinyl)amino]-N-		
	methylbenzenesulfonamide	N N CI	(methyloxy)aniline
	trifluoroacetate		
	3-({6-[(4-		4
000	cyclopropylphenyl)amino]-4-	NH NH	4-
233	pyrimidinyl}amino)- <i>N</i> -		(cyclopropyloxy)anilin
	methylbenzenesulfonamide	N H ·TFA	е
	trifluoroacetate		
	<i>N</i> -methyl-3-[(6-{[4-(1 <i>H</i> -pyrazol-1-		
234	yl)phenyl]amino}-4-	NH NH	4-(1 <i>H</i> -pyrazol-1-
	pyrimidinyl)amino]benzenesulfon		yl)aniline
	amide trifluoroacetate	N N •TFA	
	3-[(6-{[4-(3,5-dimethyl-1 <i>H</i> -		
	pyrazol-1-yl)phenyl]amino}-4-	H S NH	   4-(3,5-dimethyl-1 <i>H</i> -
235	pyrimidinyl)amino]-N-	of o	pyrazol-1-yl)aniline
	methylbenzenesulfonamide		
	trifluoroacetate		
	3-[(6-{[4-chloro-3-		
	(methyloxy)phenyl]amino}-4-	H NH	
236	pyrimidinyl)amino]-N-	o"io N	4-chloro-3-
	methylbenzenesulfonamide	N N N O TFA	(methyloxy)aniline
	trifluoroacetate		
	N-methyl-3-[(6-{[4-(2-	н	
237	thienyl)phenyl]amino}-4-	NH NH	
231	pyrimidinyl)amino]benzenesulfon		4-(2-thienyl)aniline
	amide trifluoroacetate	N N TFA	
	N-methyl-3-[(6-{[4-(2-methyl-1H-		
220	imidazol-1-yl)phenyl]amino}-4-	NH NH	4-(2-methyl-1 <i>H</i> -
238	pyrimidinyl)amino]benzenesulfon		imidazol-1-yl)aniline
	amide trifluoroacetate	N N TFA	
	N-methyl-3-[(6-{[4-(1-		
239	methylpropyl)phenyl]amino}-4-	NH NH	4-(1-
	pyrimidinyl)amino]benzenesulfon		methylpropyl)aniline
	amide trifluoroacetate	N N TFA	

240	N-methyl-3-{[6-(6-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide	H N N N N N N N N N N N N N N N N N N N	6-quinolinamine
241	N-methyl-3-{[6-({4- [(trifluoromethyl)thio]phenyl}amin o)-4- pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	NH S CF3	4- [(trifluoromethyl)thio]a niline
242	3-({6-[(4-bromophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	NH NH TIFA	4-bromo-aniline
243	N-methyl-3-[(6-{[4- (methylthio)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfon amide trifluoroacetate	NH NH STEA	4-(methylthio)aniline
244	N-methyl-3-{[6-({4- [(trifluoromethyl)oxy]phenyl}amin o)-4- pyrimidinyl]amino}benzenesulfon amide trifluoroacetate	NH NTFA	4- [(trifluoromethyl)oxy]a niline

The following compounds were prepared with procedures analogous to that described in Example 206 using the 3-[(6-chloro-4-pyrimidinyl)amino]-4-(dimethylamino)-N-methylbenzene-sulfonamide as either the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
245	3-({6-[(4-chlorophenyl)amino]- 4-pyrimidinyl}amino)-4- (dimethylamino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH NH NT	4-chloroaniline

246	4-(dimethylamino)- <i>N</i> -methyl-3- ({6-[(3-methylphenyl)amino]-4- pyrimidinyl}amino)benzenesulf onamide trifluoroacetate	NH NH CH <sub>3</sub>	3-methylaniline
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The following compound was prepared with procedures analogous to that described in Example 206 using 1-(6-chloro-4-pyrimidinyl)-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide as either the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
247	N-methyl-1-(6-{[4- (trifluoromethyl)phenyl]amino}- 4-pyrimidinyl)-2,3-dihydro-1 <i>H</i> - indole-6-sulfonamide trifluoroacetate	TFA	4-(trifluoromethyl)aniline

The following compound was prepared with procedures analogous to that described in Example 206 using 1-(6-chloro-4-pyrimidinyl)-*N*-methyl-1*H*-benzimidazole-6-sulfonamide as either the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
248	1-{6-[(4-chlorophenyl)amino]- 4-pyrimidinyl}- <i>N</i> -methyl-1 <i>H</i> - benzimidazole-6-sulfonamide trifluoroacetate	HN S N N N N N N N N N N N N N N N N N N	4-chloro-aniline

The following compound was prepared with procedures analogous to that described in Example 206 using N-(5-bromo-6-methyl-2-pyridinyl)-6-chloro-4-pyrimidinamine as either the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
249	3-({6-[(5-bromo-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate	TFA	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]benzen esulfonamide

### **EXAMPLE 250**

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide trifluoroacetate

A mixture of 6-chloro-N-(4-chlorophenyl)-4-pyrimidinamine hydrochloride (0.176 g, 0.586 mmol), 3-amino-N-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide (0.179 g, 0.733 mmol) and AgOTf (0.151 g, 0.586 mmol) in NMP (1.562 mL) was heated in a microwave reactor at 180 °C for 30 min. The reaction mixture was filtered and purified by mass directed autoprep (Waters, Sunfire prep C18 OBD, 30 x 150 mm, 30-70% CH<sub>3</sub>CN/water with 0.1% TFA). Concentration of the appropriate fractions yielded 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-N-methyl-4-[(1-

The following compounds were prepared with procedures analogous to that described in Example 250 using 6-chloro-*N*-(4-chlorophenyl)-4-pyrimidinamine as the free base, TFA, or HCl salt and the specified aniline:

methylethyl)oxy]benzenesulfonamide trifluoroacetate (0.150 g, 43%) as a brown solid.

Ex.	Name	Structure	Aniline
251	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(4-morpholinyl)benzenesulfonamide trifluoroacetate	NH NH CI	3-amino- <i>N</i> -methyl-4-(4-morpholinyl)benzenesulf onamide
252	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide trifluoroacetate	NH NH NTFA	3-amino- <i>N</i> -methyl-4- (methyloxy)benzenesulf onamide
253	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4- [ethyl(methyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	NH NH NTFA	3-amino-4- [ethyl(methyl)amino]- <i>N</i> - methylbenzenesulfonam ide
254	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)-4-hydroxy- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	OH NH NH TFA	3-amino-4-hydroxy- <i>N</i> -methylbenzenesulfonamide
255	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	H NH NH CI	3-amino-4-fluoro- <i>N</i> -methylbenzenesulfonamide
256	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methylthio)benzenesulfonamide trifluoroacetate	NH NH CI	3-amino- <i>N</i> -methyl-4- (methylthio)benzenesulf onamide
257	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide trifluoroacetate	H S O F F F O S O N H C I	3-amino- <i>N</i> -methyl-4- [(trifluoromethyl)oxy]ben zenesulfonamide
258	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2 <i>R</i> )-2-(trifluoromethyl)-1-pyrrolidinyl]benzenesulfonamide trifluoroacetate	F F N N N N N N N N N N N N N N N N N N	3-amino- <i>N</i> -methyl-4- [(2 <i>R</i> )-2-(trifluoromethyl)- 1- pyrrolidinyl]benzenesulf onamide

259	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-pyrrolidinyl)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate		3-amino-4-(3,3-difluoro- 1-pyrrolidinyl)- <i>N</i> - methylbenzenesulfonam ide
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The following compound was prepared with procedures analogous to that described in Example 250 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzene-sulfonamide as the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
000	N-methyl-3-[(6-{[4-(1,3-oxazol-5-yl)phenyl]amino}-4-	H NH	4/40
260	pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	TFA .TFA	4-(1,3-oxazol-5-yl)aniline

The following compounds were prepared with procedures analogous to that described in Example 250 using 6-chloro-*N*-(3-methylphenyl)-4-pyrimidinamine as the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
261	N-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)-4-(4-morpholinyl)benzenesulfonamide trifluoroacetate	H N N N N N N N N N N N N N N N N N N N	3-amino- <i>N</i> -methyl-4-(4-morpholinyl)benzenesulf onamide

The following compounds were prepared with procedures analogous to that described in Example 250 using 6-chloro-*N*-[4-(trifluoromethyl)phenyl]-4-pyrimidinamine as the free base, TFA, or HCl salt and the specifiede aniline:

Ex.	Name	Structure	Aniline
262	N-methyl-4-(methyloxy)-3-[(6- {[4- (trifluoromethyl)phenyl]amino}- 4-pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	NH FFF F F F F F F F F F F F F F F F F F	3-amino- <i>N</i> -methyl-4- (methyloxy)benzenesu Ifonamide
263	N-methyl-4-(methylthio)-3-[(6- {[4- (trifluoromethyl)phenyl]amino}- 4-pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	S NH F F F F TFA	3-amino- <i>N</i> -methyl-4- (methylthio)benzenesu Ifonamide

The following compounds were prepared with procedures analogous to that described in Example 250 using N-(3-bromo-5-methylphenyl)-6-chloro-4-pyrimidinamine as the free base, TFA, or HCl salt and the specified aniline:

Ex.	Name	Structure	Aniline
264	3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)-N-methyl-4-(methyloxy)benzenesulfonamide trifluoroacetate	NH Br	3-amino- <i>N</i> -methyl-4- (methyloxy)benzenesu Ifonamide
265	1-{6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}- <i>N</i> -methyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	THA PER A THEA	N-methyl-2,3-dihydro- 1 <i>H</i> -indole-6- sulfonamide

The following compound was prepared with procedures analogous to that described in Example 250 using 6-chloro-*N*-{4-[(2,2,2-trifluoroethyl)oxy]phenyl}-4-pyrimidinamine as the free base, TFA, or HCl salt and the appropriate aniline:

Ex	Name	Structure	Aniline
266	N-methyl-3-{[6-({4-[(2,2,2-trifluoroethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide trifluoroacetate	S CF <sub>3</sub> NH  NH  N TFA	3-amino- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)thio]benz enesulfonamide

The following compound was prepared with procedures analogous to that described in Example 250 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide as the free base, TFA, or HCl salt and the specified aniline:

Ex	Name	Structure	Aniline
267	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide trifluoroacetate	HONFF NH NH NH NH NH F	3,4-difluoro-aniline

#### **EXAMPLE 268**

# *N*-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-N-methylbenzenesulfonamide (0.150 g, 0.502 mmol), 4-pyridinamine (0.059 g, 0.628 mmol),  $Pd_2(dba)_3$  (0.009 g, 0.010 mmol), xantphos (11.62 mg, 0.020 mmol) and  $K_3PO_4$  (0.213 g, 1.004 mmol) in 1,4-dioxane (1.255 mL) was heated in a microwave reactor at 150 °C for 30 min. The reaction mixture was loaded onto an ion exchange column (SCX, 5 g, washed with MeOH and eluted with 2 M ammonia in MeOH). Concentration of the ammonia/MeOH fractions yielded 0.243 g of a yellow oil, that was then dissolved in NMP, filtered, and purified by mass directed autoprep (Waters, Sunfire prep C18 OBD, 30 x 150 mm, 10-50%  $CH_3CN/water$  plus 0.1% TFA). Concentration of the appropriate fractions yielded N-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate (0.053 g, 21%) as a white solid.

The following compounds were prepared with procedures analogous to that described in Example 268 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzene-sulfonamide in its free base, TFA, or HCl salt form and the specified amine:

Ex.	Name	Structure	Amine
269	N-methyl-3-{[6-(3- pyridinylamino)-4- pyrimidinyl]amino}benzene sulfonamide		3-pyridinamine
270	N-methyl-3-({6-[(5-methyl-3-pyridinyl)amino]-4-pyrimidinyl}amino)benzene sulfonamide	TN ST NH	5-methyl-3-pyridinamine
271	N-methyl-3-{[6-(2- pyridinylamino)-4- pyrimidinyl]amino}benzenesulf onamide	TE SOLO SE	2-pyridiniamine
272	N-methyl-5-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}-3- pyridinesulfonamide		5-amino- <i>N</i> -methyl-3- pyridinesulfonamide
273	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	THA NH	5-chloro-2-pyridinamine
274	N-methyl-3-{[6-(1,3-thiazol-2-ylamino)-4-pyrimidinyl]amino}benzene sulfonamide trifluoroacetate	TI S S TIFA	1,3-thiazol-2-amine
275	N-methyl-3-[(6-{[5- (trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzene sulfonamide trifluoroacetate	O O NH CF3	5-(trifluoromethyl)-2- pyridinamine

276	N-methyl-3-({6-[(5-methyl-1,3-thiazol-2-yl)amino]-4-pyrimidinyl}amino)benzene sulfonamide	TI ZI	5-methyl-1,3-thiazol-2- amine
277	N-methyl-3-{[6-(1,3,4-thiadiazol-2-ylamino)-4-pyrimidinyl]amino}benzene sulfonamide		1,3,4-thiadiazol-2-amine
278	3-{[6-(3-isoquinolinylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide		3-isoquinolinamine
279	N-methyl-3-{[6-(2-quinolinylamino)-4-pyrimidinyl]amino}benzene sulfonamide	THE SECOND SECON	2-quinolinamine
280	N-methyl-3-{[6-(1,3-oxazol-2-ylamino)-4-pyrimidinyl]amino}benzene sulfonamide trifluoroacetate		1,3-oxazol-2-amine
281	N-methyl-3-[(6-{[4- (trifluoromethyl)-1,3-thiazol-2- yl]amino}-4- pyrimidinyl)amino]benzenesulf onamide	II S S S S S S S S S S S S S S S S S S	4-(trifluoromethyl)-1,3- thiazol-2-amine
282	methyl (2-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- 1,3-thiazol-4-yl)acetate trifluoroacetate	THA STATE OF THE PARTY OF THE P	methyl (2-amino-1,3- thiazol-4-yl)acetate
283	N-methyl-3-[(6-{[4-(1-methylethyl)-1,3-thiazol-2-yl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	H N S N S N S N S N S N S N S N S N S N	4-(1-methylethyl)-1,3- thiazol-2-amine

	N-methyl-3-({6-[(4-methyl-1,3-	N H N	
204	oxazol-2-yl)amino]-4-		4-methyl-1,3-oxazol-2-
284	pyrimidinyl}amino)benzenesulf	H O NH	amine
	onamide		

The following compounds were prepared with procedures analogous to that described in Example 268 using 3-[(6-chloro-4-pyrimidinyl)amino]-N-methyl-4-(methyloxy)benzenesulfonamide in its free base, TFA, or HCl salt form and the specified amine using either  $K_3PO_4$  or  $K_2CO_3$  as the base:

Ex.	Name	Structure	Amine
285	N-methyl-4-(methyloxy)-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}benzenesul fonamide trifluoroacetate	HOUNT NH	2-pyridinamine
286	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl- 4- (methyloxy)benzenesulfonami de trifluoroacetate	HON NH NH N N N N N N N N N N N N N N N	5-chloro-2-pyridinamine

The following compounds were prepared with procedures analogous to that described in Example 268 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
287	3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate	HONS SHOW THAT	5-chloro-2-pyridinamine

288	N-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate	HONS NH	2-pyridinamine
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The following compounds were prepared with procedures analogous to that described in Example 268 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylthio)benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
289	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl- 4- (methylthio)benzenesulfonam	S. A S. A.	5-chloro-2-pyridinamine
	ide trifluoroacetate	.TFA	

The following compounds were prepared with procedures analogous to that described in Example 268 using 1-(6-chloro-4-pyrimidinyl)-N-methyl-2,3-dihydro-1H-indole-6-sulfonamide as either the free base or HCl salt and the specified amine using  $K_2CO_3$  as the base:

Ex.	Name	Structure	Amine
290	1-{6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}- <i>N</i> -methyl-2,3- dihydro-1 <i>H</i> -indole-6- sulfonamide trifluoroacetate	-H, N,	5-chloro-2-pyridinamine

### **EXAMPLE 291**

N-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide (330 mg, 0.832 mmol), 5-(trifluoromethyl)-2-pyridinamine (539 mg, 3.33 mmol), Pd<sub>2</sub>dba<sub>3</sub> (15.23 mg, 0.017 mmol), Xantphos (19.25 mg, 0.033 mmol) and potassium carbonate (1149 mg, 8.32 mmol) in 1,4-dioxane (3327 µl) was heated in the microwave at 180 °C for a total of 90 min. The reaction was filtered and the filtrate loaded onto a SCX (10 g, washed with MeOH and eluted with 2M ammonia in MeOH). Concentration of the ammonia/MeOH fractions yielded a brown solid which was subsequently dissolved in DMSO/MeOH and purified by mass directed autoprep (Waters, Sunfire prep C18 OBD, 30 x 150 mm, 20-60% CH<sub>3</sub>CN/water plus 0.1% TFA) to give *N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate (33 mg, 5.9%) as a pale yellow solid.

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
292	N-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate	THA NEW YORK OF THE ACTION OF	4-pyridinamine

293	3-({6-[(3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulf onamide trifluoroacetate	HON NH F N TFA	3-fluoro-2-pyridinamine
294	3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulf onamide trifluoroacetate	HON NH NH NH N N N N N N N N N N N N N N	6-amino-3- pyridinecarbonitrile
295	N-methyl-3-{[6-(4- pyrimidinylamino)-4- pyrimidinyl]amino}-4-[(2,2,2- trifluoroethyl)oxy]benzenesulf onamide	TFA	4-pyrimidinamine
296	3-({6-[(5-chloro-3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulf onamide	HQ NH F CI	5-chloro-3-fluoro-2- pyridinamine
297	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-[(6-{[6- (trifluoromethyl)-3- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulf onamide	TFA	6-(trifluoromethyl)-3- pyridinamine
298	3-({6-[(5-chloro-4-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulf onamide trifluoroacetate	NH NH CI	5-chloro-4-methyl-2- pyridinamine

299	3-({6-[(4,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulf onamide trifluoroacetate	HON PER CI CI TEA	4,5-dichloro-2- pyridinamine
300	3-({6-[(5-chloro-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulf onamide trifluoroacetate	HONSON NH NTFA	5-chloro-6-methyl-2- pyridinamine
301	3-(6-(5-isopropylpyridin-2-ylamino)pyrimidin-4-ylamino)-N-methyl-4-(2,2,2-trifluoroethoxy)benzenesulfon amide trifluoroacetate	HON NH NH NTFA	5-(1-methylethyl)-2- pyridinamine

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-fluoro-*N*-methylbenzenesulfonamide in its free base, TFA, or HCl salt form and the specified amine:

Ex.	Name	Structure	Amine
	3-({6-[(5-chloro-2-		
302	pyridinyl)amino]-4-	F F	
	pyrimidinyl}amino)-4-fluoro-	NH NH	E ablara 2 numidinamina
	N-	Ö N	5-chloro-2-pyridinamine
	methylbenzenesulfonamide	N H	
	trifluoroacetate	.TFA	
	4-fluoro- <i>N</i> -methyl-3-[(6-{[5-	√F	
303	(trifluoromethyl)-2-	HONS NH F	5 (trifluoromothyl) 2
	pyridinyl]amino}-4-	S N N N N F F	5-(trifluoromethyl)-2-
	pyrimidinyl)amino]benzenesu		pyridinamine
	Ifonamide trifluoroacetate	.TFA	

The following compound was prepared with procedures analogous to that described in Example 291 using 4-chloro-3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide in its free base, TFA, or HCl salt form and the specified amine:

Ex.	Name	Structure	Amine
304	4-chloro-3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	TFA	5-chloro-2-pyridinamine

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide in its free base, TFA, or HCl salt form and the specified amine:

Ex.	Name	Structure	Amine
305	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl- 4- (methylsulfonyl)benzenesulfo namide	TFA	5-chloro-2-pyridinamine
306	N-methyl-4-(methylsulfonyl)- 3-[(6-{[5-(trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesu Ifonamide	NH NH NH FFF	5-(trifluoromethyl)-2- pyridinamine
307	N-methyl-4-(methylsulfonyl)- 3-{[6-(6-quinolinylamino)-4- pyrimidinyl]amino}benzenesu Ifonamide		6-quinolinamine

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
	3-({6-[(5-chloro-2-		
	pyridinyl)amino]-4-	~ 0 F	
200	pyrimidinyl}amino)-N-	HO F	E ablara 2 numidinamina
308	methyl-4-[(2,2,2-trifluoro-1-		5-chloro-2-pyridinamine
	methylethyl)oxy]benzenesulf		
	onamide trifluoroacetate	H .TFA	
	N-methyl-4-[(2,2,2-trifluoro-		
	1-methylethyl)oxy]-3-[(6-{[5-	\$ 0. F	
309	(trifluoromethyl)-2-	HO F	5-(trifluoromethyl)-2-
	pyridinyl]amino}-4-	J F F	pyridinamine
	pyrimidinyl)amino]benzenes		
	ulfonamide	H .TFA	

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-[(1,1-dimethylethyl)sulfonyl]-*N*-methylbenzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
	4-(tert-butylsulfonyl)-N-		
	methyl-3-(6-(5-	0,3	
310	(trifluoromethyl)pyridin-2-	#9	5-(trifluoromethyl)-2-
310	ylamino)pyrimidin-4-	NH F F	pyridinamine
	ylamino)benzenesulfonamid		
	e trifluoroacetate	H .TFA	
311	4-(tert-butylsulfonyl)-3-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)-N-methylbenzenesulfonamide trifluoroacetate	HON SHOW THE NAME OF THE NAME	5-chloro-2-pyridinamine

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(1-methylethyl)sulfonyl]benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
	N-methyl-4-(propane-2-		
	sulfonyl)-3-[6-(5-	0, 0 \$	
312	trifluoromethyl-pyridin-2-	HO NH F	5-(trifluoromethyl)-2-
312	ylamino)-pyrimidin-4-	N F F	pyridinamine
	ylamino]-		
	benzenesulfonamide	.TFA	
	3-[6-(5-chloro-pyridin-2-	0,0	
313	ylamino)-pyrimidin-4-	HO S	
	ylamino]-N-methyl-4-	NH CI	5-chloro-2-pyridinamine
	(propane-2-sulfonyl)-		
	benzenesulfonamide	.TFA	

The following compounds were prepared with procedures analogous to that described in Example 291 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
	3-({6-[(5-chloro-2-pyridinyl)amino]-4-	°°°F	
314	pyrimidinyl}amino)- <i>N</i> - methyl-4- [(trifluoromethyl)oxy]benzen esulfonamide trifluoroacetate	F NH N TFA	5-chloro-2-pyridinamine

The following compounds were prepared with procedures analogous to that described in Example 291 using 1-(6-chloro-4-pyrimidinyl)-*N*,3,3-trimethyl-2,3-dihydro-1*H*-indole-6-sulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
315	1-[6-(5-chloro-pyridin-2- ylamino)-pyrimidin-4-yl]-3,3- dimethyl-2,3-dihydro-1 <i>H</i> - indole-6-sulfonic acid		5-chloro-2-pyridinamine
	methylamide trifluoroacetate	'' Ĥ ''	

The following compounds were prepared with procedures analogous to that described in Example 291 using 5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
	5-(6-(5-chloropyridin-2-	F F F F F F F F F F F F F F F F F F F	
	ylamino)pyrimidin-4-ylamino)-		
316	2-fluoro- <i>N</i> -methyl-4-(1,1,1-		5-chloro-2-pyridinamine
310	trifluoropropan-2-		J-criloro-z-pyridinamine
	yloxy)benzenesulfonamide		
	trifluoroacetate	H .TFA	

The following compounds were prepared with procedures analogous to that described in Example 291 using 5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide as either the free base or HCl salt and the specified amine:

Ex.	Name	Structure	Amine
317	5-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]-2-fluoro-4-methanesulfonyl- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	F O S S N N N N N TFA	5-chloro-2-pyridinamine

## **EXAMPLE 318**

5-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate

A mixture of 5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide (550 mg, 1.326 mmol), 5-chloro-2-pyridinamine (682 mg, 5.30 mmol), Cs<sub>2</sub>CO<sub>3</sub> (1296 mg, 3.98 mmol), Pd(OAc)<sub>2</sub> (5.95 mg, 0.027 mmol) and BINAP (16.51 mg, 0.027 mmol) in 1,4-dioxane (3315 μl) was heated in the microwave at 150°c for 30 min. The reaction mixture was concentrated, dissolved in NMP, filtered and purified by MDAP (Waters, Sunfire 30 x 150 mm, 20-60% acetonitrile +0.1 % TFA:water +0.1 % TFA) to give 158mg of a white solid, 90% pure by NMR. This solid was then purified by silica SPE (5 g, eluted with 50-50 CH<sub>2</sub>Cl<sub>2</sub>:Et<sub>2</sub>O, 25-75 CH<sub>2</sub>Cl<sub>2</sub>:Et<sub>2</sub>O, Et<sub>2</sub>O, EtOAc then MeOH). Concentration of the appropriate fractions yielded 5-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-2-fluoro-*N*-methyl-4-[(2,2,2-title to the title to the titl

trifluoroethyl)oxy]benzenesulfonamide trifluoroacetate (51 mg, 5.8%) as a white solid.

The following compound was prepared with procedures analogous to that described in Example 318 using 5-[(6-chloro-4-pyrimidinyl)amino]-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide as either the free base or HCl salt, and the specified amine:

Ex.	Name	Structure	Amine
	2-fluoro- <i>N</i> -methyl-4-[(2,2,2-		
	trifluoroethyl)oxy]-5-[(6-{[5-	F, Q, F	
319	(trifluoromethyl)-2-	HO F	5-(trifluoromethyl)-2-
319	pyridinyl]amino}-4-	CF <sub>3</sub>	pyridinamine
	pyrimidinyl)amino]benzenes		
	ulfonamide trifluoroacetate	H .TFA	

The following compound was prepared with procedures analogous to that described in Example 318 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide as either the free base or HCl salt, and the specified amine:

Ex.	Name	Structure	Amine
	3-({6-[(5-fluoro-2-	O_CF <sub>3</sub>	
	pyridinyl)amino]-4-	HO	
220	pyrimidinyl}amino)-N-	S NH	E fluoro 2 nuridinamina
320	methyl-4-[(2,2,2-		5-fluoro-2-pyridinamine
	trifluoroethyl)oxy]benzenesu	N N N	
	Ifonamide trifluoroacetate	.TFA	

The following compound was prepared with procedures analogous to that described in Example 318 using 3-[(6-chloro-4-pyrimidinyl)amino]-4-(ethylsulfonyl)-*N*-methylbenzenesulfonamide as either the free base or HCl salt, and the specified amine:

Ex.	Name	Structure	Amine
321	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)-4- (ethylsulfonyl)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	H NH NH NT TFA	5-chloro-2-pyridinamine
322	4-(ethylsulfonyl)- <i>N</i> -methyl-3- [(6-{[5-(trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenes ulfonamide trifluoroacetate	HN SON SH NH	5-(trifluoromethyl)-2- pyridinamine

The following compound was prepared with procedures analogous to that described in Example 318 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide as either the free base or HCl salt, and the specified amine:

Ex.	Name	Structure	Amine
323	3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate	H N N N N N N N N N N N N N N N N N N N	6-amino-3- pyridinecarbonitrile

The following compound was prepared with procedures analogous to that described in Example 318 using 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide as either the free base or HCl salt, and the specified amine:

Ex.	Name	Structure	Amine
	3-({6-[(5-cyano-2- pyridinyl)amino]-4-	, o F	
324	pyrimidinyl}amino)- <i>N</i> -	NH F	6-amino-3-
324	methyl-4-[(2,2,2-trifluoro-1-		pyridinecarbonitrile
	methylethyl)oxy]benzenesulf onamide trifluoroacetate	N N N	
	Onamide initidoroacetate	.TFA	

**EXAMPLE 325** 

2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylic acid

Step 1. methyl 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylate

A mixture of 3-[(6-chloro-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide (0.150 g, 0.502 mmol),  $K_3PO_4$  (0.213 g, 1.004 mmol), xantphos (0.011 g, 0.020 mmol),  $Pd_2(dba)_3$  (9.20 mg, 0.010 mmol), and methyl 2-amino-1,3-thiazole-5-carboxylate (0.079 g, 0.502 mmol) was heated in a microwave reactor at 170 °C for 90 min. The reaction crude mixture was purified *via* flash column chromatography (ISCO, 40 g silica column, 0-10%  $MeOH/CH_2Cl_2$ ) to afford methyl 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylate (0.030 mg, 14%) as an oil. (m/z) 421.0 (M+H<sup>+</sup>)

Step 2. 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylic acid

A solution of methyl 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylate (0.030 g, 0.071 mmol) in THF (6 mL) and water (2 mL) was treated with NaOH (1 mL, 2.0 mmol) at rt for 24 h. The solvent was removed *in vacuo* and the residue treated with HCl (1 mL, 2.0 mmol). Collection of the yellow precipitate by filtration followed by lyophilization afforded 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylic acid (0.019 g, 62%).

The following compound was prepared with a procedure analogous to that described in Example 325 using the indicated aniline:

Ex.	Name	Structure	Aniline
326	(2-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- 1,3-thiazol-4-yl)acetic acid	N N N N N N N N N N N N N N N N N N N	methyl (2-amino-1,3- thiazol-4-yl)acetate

### **EXAMPLE 327**

1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-1*H*-indole-6-sulfonamide trifluoroacetate

A mixture of *N*-methyl-1*H*-indole-6-sulfonamide (230 mg, 1.094 mmol), 6-chloro-*N*-(4-chlorophenyl)-4-pyrimidinamine (263 mg, 1.094 mmol) in THF was heated in the microwave for 60 min at 150 °C. The reaction was filtered and the filtrate concentrated. The residue was dissolved in NMP and purified by mass directed autoprep (Waters, Sunfire prep C18 OBD, 30x 150 mm, (40-90 % CH<sub>3</sub>CN+0.1%TFA/water +0.1% TFA) Concentration of the appropriate fractions yielded 1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-1*H*-indole-6-sulfonamide trifluoroacetate (63 mg, 5.7%) as a brown solid.

## **EXAMPLE 328**

3-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2-oxo-2,3-dihydro-1*H*-benzimidazole-5-sulfonamide trifluoroacetate

A mixture of 4-amino-3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide (400 mg, 0.494 mmol) and carbonyl diimidazole (136 mg, 0.840 mmol) in 1,4-dioxane (1976 µl) was stirred at rt for 5 h then 12 h at 50 °C. LCMS analysis of the reaction mixture showed incomplete reaction. The reaction was concentrated and the residue partitioned between CH<sub>2</sub>Cl<sub>2</sub> and 2N HCl. The organic layers were concentrated and the residue was dissolved in 1,4-dioxane (2 mL), treated with carbonyl diimidazole (120 mg, 0.741 mmol) and heated in the microwave at 100 °C for a total of 25 min. The reaction mixture was concentrated, the residue was dissolved in NMP, filtered and purified by mass directed autoprep (Waters, Sunfire prep C18 OBD,

30x 150 mm, (30-70 % CH<sub>3</sub>CN+0.1%TFA/water +0.1% TFA) Concentration of the appropriate fractions yielded 3-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2-oxo-2,3-dihydro-1*H*-benzimidazole-5-sulfonamide trifluoroacetate (12.2 mg, 4.1%) as a solid.

## **EXAMPLE 329**

3-{[6-({3-[6-(dimethylamino)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide

Α of 3-({6-[(3-bromophenyl)amino]-4-pyrimidinyl}amino)-Nmixture methylbenzenesulfonamide (0.500 g, 1.15 mmol), N,N-dimethyl-5-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-pyridinamine (0.429, 1.732), K<sub>3</sub>PO<sub>4</sub> (1.23 g, 4.6 mmol), and Pd(Ph<sub>3</sub>)<sub>4</sub> (0.133 g, 0.115 mmol) was heated in DMF (6 mL) and water (0.6 mL) in a microwave reactor for 40 min at 150 °C. The reaction mixture was then cooled, diluted with 10% MeOH/CH<sub>2</sub>Cl<sub>2</sub> (50 mL), filtered, and concentrated. The crude material was then purified via flash column chromatography (40 q silica column, CH<sub>2</sub>Cl<sub>2</sub>:MeOH:Et<sub>3</sub>N) to give 3-{[6-({3-[6-(dimethylamino)-3-pyridinyl]phenyl}amino)-4pyrimidinyl]amino}-N-methylbenzenesulfonamide (0.350 g) in 85% purity. This material was then purified via HPLC (Gilson, PRC-ODS 20 x 250 mm column, 55-70% 0.01% NH<sub>4</sub>HCO<sub>3</sub>) 3-{[6-({3-[6-(dimethylamino)-3-CH<sub>3</sub>CN/H<sub>2</sub>O with to afford pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide in >99% purity (0.150 g, 35%) as a white solid.

The following compounds were prepared with procedures analogous to that described in Example 329 using 3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide as the free base, TFA, or HCl salt and the specified boronic acid:

Ex.	Name	Structure	Boronate
330	N-methyl-3-({6-[(5-methyl-3-biphenylyl)amino]-4-pyrimidinyl}amino)benzene sulfonamide trifluoroacetate	H S NH TFA	Phenyl boronic acid
331	N-methyl-3-[(6-{[3-methyl-5-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]-benzenesulfonamide trifluoroacetate	H NH NH NTFA	3-pyridinylboronic acid

The following compounds were prepared with procedures analogous to that described in Example 329 using 3-({6-[(3-bromophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide as the free base, TFA, or HCl salt and the specified boronate:

Ex.	Name	Structure	Boronate
332	3-[(6-{[3'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide		[3- (dimethylamino)phenyl]boronic acid
333	N-methyl-3-[(6-{[4'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-benzenesulfonamide		[4-(4- morpholinyl)phenyl]boronic acid
334	N-methyl-3-{[6-({3-[6-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide		[6-(methyloxy)-3- pyridinyl]boronic acid
335	3'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-4- biphenylcarboxamide	NH ZII	[4- (aminocarbonyl)phenyl]boronic acid

336	N-methyl-3-{[6-({3-[5- (methyloxy)-3- pyridinyl]phenyl}amino)-4- pyrimidinyl]amino}- benzenesulfonamide	IN SUCCESSION OF THE PROPERTY	[5-(methyloxy)-3- pyridinyl]boronic acid
337	3'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-3- biphenylcarboxamide	H NH <sub>2</sub>	[3- (aminocarbonyl)phenyl]boronic acid
338	N-methyl-3-{[6-({3'- [(methylsulfonyl)amino]-3- biphenylyl}amino)-4- pyrimidinyl]amino}benzen esulfonamide	H N N N N N N N N N N N N N N N N N N N	{3- [(methylsulfonyl)amino]phenyl} boronic acid
339	3-[(6-{[4'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide	THE SECOND SECON	[4- (dimethylamino)phenyl]boronic acid
340	N-methyl-3-{[6-({3-[4- (methyloxy)-3- pyridinyl]phenyl}amino)-4- pyrimidinyl]amino}- benzenesulfonamide	THE SECOND SECON	[4-(methyloxy)-3- pyridinyl]boronic acid
341	N-(3'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-4- biphenylyl)acetamide		[4-(acetylamino)phenyl]boronic acid
342	N-methyl-3-{[6-(4'- [(methylsulfonyl)amino]-3- biphenylyl}amino)-4- pyrimidinyl]amino}- benzenesulfonamide	TE ZET ZET ZET ZET ZET ZET ZET ZET ZET Z	{4- [(methylsulfonyl)amino]phenyl} boronic acid

343	N-(3'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-3- biphenylyl)acetamide	H Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	[3-(acetylamino)phenyl]boronic acid
344	N-methyl-3'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-4- biphenylsulfonamide		N-methyl-4-(4,4,5,5- tetramethyl-1,3,2- dioxaborolan-2- yl)benzenesulfonamide
345	N-methyl-3'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-3- biphenylsulfonamide	THE STATE OF THE S	N-methyl-3-(4,4,5,5- tetramethyl-1,3,2- dioxaborolan-2- yl)benzenesulfonamide

The following compounds were prepared with procedures analogous to that described in Example 329 using 3-({6-[(3-bromo-4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide as the free base, TFA, or HCl salt and the specified boronate:

Ex.	Name	Structure	Boronate
346	3-[(6-{[4-chloro-3-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonami	THE STATE OF THE S	3-pyridinylboronic acid
347	2'-chloro-5'-{[6-({3- [(methylamino)sulfonyl]ph enyl}amino)-4- pyrimidinyl]amino}-3- biphenylcarboxamide	NH <sub>2</sub>	[3- (aminocarbonyl)phenyl]boro nic acid
348	3-[(6-{[6-chloro-3'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide	I N N N N N N N N N N N N N N N N N N N	4-[3-(4,4,5,5-tetramethyl- 1,3,2-dioxaborolan-2- yl)phenyl]morpholine

### **EXAMPLE 349**

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid

A suspension of methyl 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoate (0.070 g, 0.169 mmol), in MeOH (0.212 mL) and THF (0.212 mL) was treated with 2 M NaOH (0.339 mL, 0.677 mmol). After about 15 min, a clear solution was observed. After 1 h additional 2 M NaOH (0.339 mL, 0.677 mmol) was added and the reaction was stirred at rt overnight.

The reaction was acidified to pH 4, the solvent removed *in vacuo*, and the residue partitioned between CH<sub>2</sub>Cl<sub>2</sub> and water. The organic layer was collected *via* hydrophobic frit. A solid was noted at the interface which was collected by filtration and then dissolved in MeOH and combined with the CH<sub>2</sub>Cl<sub>2</sub> extracts. Concentration then afforded 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid (0.044 g, 62%) as an off-white solid.

The following carboxylic acid was prepared with a procedure analogous to that described in Example 349 using the specified ester starting material:

Ex.	Name	Structure	Ester
	[(3-{[6-({3-		1-methylethyl [(3-{[6-({3-
	[(methylamino)sulfonyl]phenyl}	NH NH	[(methylamino)sulfonyl]p
350	amino)-4-		henyl}amino)-4-
	pyrimidinyl]amino}phenyl)oxy]-	N N N O Y O	pyrimidinyl]amino}phenyl
	acetic acid		)oxy]acetate

## **EXAMPLE 351**

# *N,N*-dimethyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide

To a solution of 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid (0.200 g, 0.50 mmol), dimethylamine (0.027 g, 0.60 mmol), and  $i\text{-Pr}_2\text{NEt}$  (0.223 g, 1.72 mmol) in THF (15 mL), EDC (0.191 g, 1.0 mmol) and HOBT (0.135 g, 1.0 mmol) were added. The resulting mixture was heated to reflux for 1 h. The solvent was removed, the residue diluted with water and filtered to afford N,N-dimethyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide (0.140, 65%) as a white solid.

The following compounds were prepared with [(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)oxy]acetic acid and the specified amine:

Ex.	Name	Structure	Amine
352	N,N-dimethyl-2-[(3-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}phenyl)oxy] acetamide trifluoroacetate	TFA	dimethylamine

The following compounds were prepared with procedures analogous to that described in Example 351 using 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid and the specified amine:

Ex.	Name	Structure	Amine
	N-(2-hydroxyethyl)-4-{[6-({3- [(methylamino)sulfonyl]phenyl}	HO NH	
353	amino)-4- pyrimidinyl]amino}benzamide		2-aminoethanol

354	N-methyl-3-{[6-({4-[(4-methyl-1-piperazinyl)carbonyl]phenyl} amino)-4-pyrimidinyl]amino}benzenesulf onamide	H N N N N N N N N N N N N N N N N N N N	1-methylpiperazine
355	4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - (1-methyl-4- piperidinyl)benzamide	Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1-methyl-4-piperidinamine
356	N-methyl-3-[(6-{[4-(1-piperazinylcarbonyl)phenyl] amino}-4-pyrimidinyl)amino]benzenesulf onamide	HZ Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	piperazine
357	N-methyl-3-[(6-{[4-({4-[2- (methyloxy)ethyl]-1- piperazinyl}carbonyl)phenyl]a mino}-4- pyrimidinyl)amino]benzenesulf onamide		1-[2- (methyloxy)ethyl]piperazin e
358	4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - [2-(methyloxy)ethyl]benzamide	H N N N N N N N N N N N N N N N N N N N	2-(methyloxy)ethanamine
359	4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - [3- (methyloxy)propyl]benzamide	TZ N N N N N N N N N N N N N N N N N N N	3-(methyloxy)-1- propanamine
360	N-[2-(dimethylamino)ethyl]-4- {[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}benzamide	HZ SZO ZH	<i>N,N-</i> dimethyl-1,2- ethanediamine

361	N,N-diethyl-4-{[6-({3- [(methylamino)sulfonyl]phenyl} amino)-4- pyrimidinyl]amino}benzamide	HIN SENO NET	diethylamine
362	N-methyl-3-[(6-{[4-(1- pyrrolidinylcarbonyl)phenyl]ami no}-4- pyrimidinyl)amino]benzenesulf onamide	H S S O N N N N N N N N N N N N N N N N N	pyrollidine
363	3-({6-[(4-{[(3S)-3- (dimethylamino)-1- pyrrolidinyl]carbonyl}phenyl) amino]-4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide	HZ STO NE ZET	(3 <i>S</i> )- <i>N,N</i> -dimethyl-3- pyrrolidinamine
364	N-methyl-3-{[6-({4-[(4-methylhexahydro-1 <i>H</i> -1,4-diazepin-1-yl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide	H N N N N N N N N N N N N N N N N N N N	1-methylhexahydro-1 <i>H</i> - 1,4-diazepine
365	N-methyl-3-[(6-{[4-(4-thiomorpholinylcarbonyl)phenyl] amino}-4-pyrimidinyl)amino]benzenesulfonamide	LZ S S S S S S S S S S S S S S S S S S S	thiomorpholine
366	3-{[6-({4-[(4,4-difluoro-1-piperidinyl)carbonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide	F Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	4,4-difluoropiperidine
367	3-({6-[(4-{[(3R)-3- (dimethylamino)-1- pyrrolidinyl]carbonyl}phenyl) amino]-4-pyrimidinyl}amino)-N- methylbenzenesulfonamide	H. S. O. N. N. H. N.	(3 <i>R</i> )- <i>N,N</i> -dimethyl-3- pyrrolidinamine

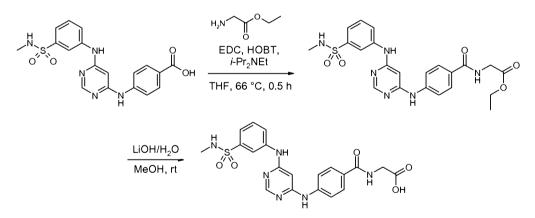
Γ		N-[2-(dimethylamino)ethyl]-N-		
		methyl-4-{[6-({3-	H N	[2-
	368	[(methylamino)sulfonyl]phenyl}	NH N	(dimethylamino)ethyl]meth
		amino)-4-		ylamine
		pyrimidinyl]amino}benzamide	N N V	

The following compound was prepared with procedures analogous to that described in Example 351 using the 4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzoic acid and the appropriate amine:

Ex.	Name	Structure	Amine
	N-[2-(dimethylamino)ethyl]-N-methyl-4-[(6-{[5-	S.	
369	[(methylamino)sulfonyl]-2- (methylthio)phenyl]amino}-4- pyrimidinyl)amino]benzamide trifluoroacetate	HON NH	[2- (dimethylamino)ethyl] methylamine

**EXAMPLE 370** 

# N-[(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)carbonyl]glycine



Step 1. ethyl  $N-[(4-\{[6-(\{3-[(methylamino)sulfonyl]phenyl\}amino)-4-pyrimidinyl]amino})$  phenyl)carbonyl]glycinate

To a solution of 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid (0.200 g, 0.50 mmol), ethyl glycinate (0.099 g, 0.75 mmol), and  $i\text{-Pr}_2\text{NEt}$  (0.260 g, 2.00 mmol) in THF (50 mL), EDC (0.196 g, 1.0 mmol) and HOBT (0.135 g, 1.0 mmol) were added. The resulting mixture was heated to reflux for 0.5 h.

The solvent was removed, the residue diluted with water and filtered to afford ethyl N-[(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)carbonyl] glycinate (0.200 g, 83%) as a white solid.

Step 2.  $N-[(4-\{[6-(\{3-[(methylamino)sulfonyl]phenyl\}amino)-4-pyrimidinyl]amino}]$  phenyl) carbonyl]glycine

A mixture of N-[(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)carbonyl]glycinate (0.200 g, 0.414 mmol) and LiOH (6 mL of a 1 M solution in water, 6.0 mmol) in MeOH (20 mL) was stirred at rt. When the ester had been consumed, the MeOH was removed *in vacuo* and the residue acidified to pH 5. A white solid then formed which was removed *via* filtration to afford N-[(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino} phenyl)carbonyl]glycine (0.040 g, 21%).

#### **EXAMPLE 371**

*N*-methyl-3-[(6-{[3-(6-oxo-1,6-dihydro-3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide

To a solution of *N*-methyl-3-{[6-({3-[6-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide (0.200 g, 0.44 mmol) in toluene (4 mL), HCl (2 mL of a 35% solution) was added. The reaction mixture was then heated to 145 °C in a sealed tube for 2 h. The crude material was then purified *via* preparatory HPLC (250 x 19 mm column, 35-60% 0.01% NH<sub>4</sub>HCO<sub>3</sub> in H<sub>2</sub>O/CH<sub>3</sub>CN) to afford *N*-methyl-3-[(6-{[3-(6-oxo-1,6-dihydro-3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide (0.128 g, 65%) as a yellow solid.

### **EXAMPLE 372**

3-({6-[(3-hydroxyphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide trifluoroacetate

A solution of N-methyl-3-[(6-{[3-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide (0.040 g, 0.104 mmol) in  $CH_2Cl_2$  (15 mL) was treated with  $BBr_3$  (0.059 mL, 0.623 mmol) at rt for 24 h. The reaction mixture was quenched slowly with a satd.  $NH_4Cl$  solution (1 mL) and then partitioned between 100 mL EtOAc and 20 mL of brine. The organic layer was separated, dried over  $MgSO_4$ , filtered and concentrated *in vacuo*. The crude material was then purified through reverse phase HPLC (Sunfire C-18 prep column, 30 x 50 mm column, 10-50%  $CH_3CN$ /water with 0.1% TFA over 14 min). The appropriate fractions were then concentrated and lyophilized to afford 3-({6-[(3-hydroxyphenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide trifluoroacetate (0.019 g, 36%) as a white solid.

#### EXAMPLE 373

*N*-methyl-4-(methylsulfonyl)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide

A mixture of *N*-methyl-4-(methylthio)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide (100 mg, 0.213 mmol), NMO (74.9 mg, 0.639 mmol), TPAP (3.74 mg, 10.65  $\mu$ mol) and 4Å powdered molecular sieves (0.213 mmol) in CH<sub>3</sub>CN (0.532 mL) was stirred at 40 °C for 3 h. An additional portion of TPAP (3.74 mg, 10.65  $\mu$ mol) was added and the reaction was stirred at 40 °C for an additional 20 hrs

before being cooled to rt and loaded onto a silica solid phase extraction column (2g, washed with  $CH_2Cl_2$ ,  $Et_2O$ , EtOAc, acetone). Concentration of the appropriate fractions yielded the crude product, which was further purified by ion exchange column (SCX, 2g, washed with MeOH and eluted with 10% 2M ammonia in MeOH in  $CH_2Cl_2$ ). Concentration of the appropriate fractions yielded a solid which was triturated with  $CH_2Cl_2$  to afford N-methyl-4-(methylsulfonyl)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide (5 mg, 3%) as a white solid.

### **EXAMPLE 374**

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate

A mixture of 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylthio)benzenesulfonamide (100 mg, 0.229 mmol) and sodium perborate tetrahydrate (141 mg, 0.918 mmol) in AcOH (0.184 mL) was heated at 50 °C overnight. The reaction was then diluted by the addition of water and extracted with CH<sub>2</sub>Cl<sub>2</sub>. The organic was collected by hydrophobic frit and concentrated to give a orange solid, 96 mg. This solid was then purified by mass directed autoprep (Waters, Sunfire prep C18 OBD, 30x 150 mm, (30-70 % CH<sub>3</sub>CN+0.1%TFA/water +0.1% TFA). Concentration of the appropriate fractions yielded 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate (52 mg, 32 %) as a peach coloured solid.

The following examples were prepared with procedures analogous to that described in Example 374 using the specified sulphide:

Ex.	Name	Structure	Sulphide
375	3-(6-(4- chlorophenylamino)pyrimidin- 4-ylamino)-4-(isobutylsulfonyl)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	HN SO NH CI	3-({6-[(4- chlorophenyl)amino]- 4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2- methylpropyl)thio]benz enesulfonamide
376	3-(6-(4- chlorophenylamino)pyrimidin- 4-ylamino)-4-(ethylsulfonyl)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	HN O NH CI	3-({6-[(4- chlorophenyl)amino]- 4-pyrimidinyl}amino)- 4-(ethylthio)- <i>N</i> - methylbenzenesulfona mide

## **EXAMPLES 377 & 378**

 $3-(\{6-[(4-chlorophenyl)amino]-4-pyrimidinyl\}amino)-\textit{N}-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]} benzenesulfonamide (enantiomer 1)$ 

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (enantiomer 2)

A racemic mixture of 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (475 mg) was subjected to chiral chromatography (Chiralpak AD-H, 60% IPA, 40% hexanes) to provide 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy] benzenesulfonamide (unassigned enantiomer 1, 20.2 mg) and 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (unassigned enantiomer 2, 20.8 mg)

## **EXAMPLES 379 & 380**

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (enantiomer 1)

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (enantiomer 2)

A racemic mixture of 3-( $\{6-[(5-\text{chloro-}2-\text{pyridinyl})\text{amino}]$ -4-pyrimidinyl $\}$ amino}-N-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (373 mg) was subjected to chiral chromatography (Chiralpak AD-H, 60% IPA, 40% hexanes with 0.1 % DEA ad a modifier) to provide 3-( $\{6-[(5-\text{chloro-}2-\text{pyridinyl})\text{amino}]$ -4-pyrimidinyl $\}$ amino}-N-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (unassigned enantiomer 1, 80 mg) & 3-( $\{6-[(5-\text{chloro-}2-\text{pyridinyl})\text{amino}]$ -4-pyrimidinyl $\}$ amino}-N-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide (unassigned enantiomer 2.39 mg, 85 % ee).

Spectroscopic data for Examples 1-380:

Ex.	<i>N</i> ame	t <sub>R</sub> (min)	MS (m/z)	<sup>1</sup> H NMR
1	N-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide trifluoroacetate	1.93ª	370.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ ppm 9.75 (s, 1H), 9.43 (br. s., 1H), 8.37 (s, 1H), 8.02 - 8.11 (m, 1H), 7.87 (dd, <i>J</i> = 1.51, 8.03 Hz, 1H), 7.54 (t, <i>J</i> = 7.91 Hz, 1H), 7.46 (q, <i>J</i> = 4.85 Hz, 1H), 7.38 (d, <i>J</i> = 7.78 Hz, 1H), 7.29 - 7.35 (m, 2H), 7.20 - 7.27 (m, 1H), 6.90 (d, <i>J</i> = 7.28 Hz, 1H), 6.18 (s, 1H), 2.44 (d, <i>J</i> = 4.77 Hz, 3H), 2.31 (s, 3H)

2	3-({6-[(3-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.17ª	390.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ ppm 9.68 (s, 1H), 9.54 (s, 1H), 8.41 (s, 1H), 8.09 (t, $J$ = 1.88 Hz, 1H), 7.90 - 7.94 (m, 1H), 7.88 (t, $J$ = 2.01 Hz, 1H), 7.53 (t, $J$ = 7.91 Hz, 1H), 7.41 - 7.49 (m, 2H), 7.29 - 7.39 (m, 2H), 7.03 (dd, $J$ = 1.25, 8.03 Hz, 1H), 6.21 (s, 1H), 2.45 (d, $J$ = 4.77 Hz, 3H)
3	N-methyl-3-{[6-(methylamino)-4-pyrimidinyl]amino}benzenesulfonamide hydrochloride	1.28ª	294.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ ppm 10.61 (br. s., 1H), 8.82 (br. s., 1H), 8.44 (s, 1H), 7.95 (br. s., 1H), 7.75 (br. s., 1H), 7.55 - 7.67 (m, 2H), 7.52 (d, $J = 7.28$ Hz, 1H), 6.08 (br. s., 1H), 2.88 (br. s., 3H), 2.45 (d, $J = 4.77$ Hz, 3H)
4	3-{[6-(ethylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamidehydrochloride	1.54ª	308.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ ppm 9.30 (s, 1H), 8.15 (s, 1H), 8.09 (s, 1H), 7.83 - 7.88 (m, 1H), 7.47 (t, $J =$ 7.91 Hz, 1H), 7.40 (q, $J =$ 5.02 Hz, 1H), 7.28 (d, $J =$ 8.03 Hz, 1H), 6.97 (t, J = 4.77 Hz, 1H), 5.76 (s, 1H), 3.16 - 3.27 (m, 2H), 2.44 (d, $J =$ 5.02 Hz, 3H), 1.13 (t, $J =$ 7.15 Hz, 3H)
5	3,3'-(4,6- pyrimidinediyldiimino) <i>bis</i> ( <i>N</i> - methylbenzenesulfonamide) trifluoroacetate	1.88ª	449.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d <sub>6</sub> ) δ ppm 9.75 (s, 2H), 8.41 (s, 1H), 8.08 (s, 2H), 7.92 (d, $J$ = 7.78 Hz, 2H), 7.54 (t, J = 7.91 Hz, 2H), 7.46 (q, $J$ = 4.85 Hz, 2H), 7.37 (d, $J$ = 7.78 Hz, 2H), 6.24 (s, 1H), 2.45 (d, $J$ = 4.52 Hz, 6H)
6	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-5-(dimethylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	6.57 <sup>b</sup>	433.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.51 (br. s., 2 H), 8.36 (s, 1 H), 7.61 (d, <i>J</i> =8.78 Hz, 2 H), 7.32 - 7.39 (m, 4 H), 7.16 (br. s., 1 H), 6.70 - 6.75 (m, 1 H), 6.17 (s, 1 H), 2.97 (s, 6 H), 2.43 (d, <i>J</i> =5.02 Hz, 3 H)
7	3-chloro-5-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide	7.22 <sup>b</sup>	424.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.83 (s, 1 H), 9.51 (s, 1 H), 8.42 (s, 1 H), 8.22 - 8.29 (m, 1 H), 7.92 - 7.99 (m, 1 H), 7.60 - 7.67 (m, 3 H), 7.34 - 7.41 (m, 2 H), 7.30 - 7.34 (m, 1 H), 6.20 (s, 1 H), 2.47 (d, <i>J</i> =5.02 Hz, 3 H)

8	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(propyloxy)benzenesulfonamide trifluoroacetate	1.12 <sup>d</sup>	448.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.44 (br. s., 1 H), 8.75 (br. s., 1 H), 8.28 (s, 1 H), 8.14 (d, <i>J</i> =1.98 Hz, 1 H), 7.58 (d, <i>J</i> =8.82 Hz, 2 H), 7.48 (dd, <i>J</i> =8.60, 1.98 Hz, 1 H), 7.33 (d, <i>J</i> =8.82 Hz, 2 H), 7.30 (q, <i>J</i> =5.07 Hz, 1 H), 7.23 (d, <i>J</i> =8.82 Hz, 1 H), 6.11 (s, 1 H), 4.06 (t, <i>J</i> =6.39 Hz, 2 H), 2.39 (d, <i>J</i> =5.07 Hz, 3 H), 1.72 (d, <i>J</i> =7.06 Hz, 2 H), 0.90 (t, <i>J</i> =7.39 Hz, 3 H)
9	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(ethyloxy)-N-methylbenzenesulfonamidetrifluoroacetate	1.07 <sup>d</sup>	434.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.34 (s, 1 H), 8.62 (br. s., 1 H), 8.27 (s, 2 H), 7.54 - 7.62 (m, 2 H), 7.43 (dd, <i>J</i> =8.49, 2.09 Hz, 1 H), 7.30 - 7.35 (m, 2 H), 7.28 (q, <i>J</i> =5.07 Hz, 1 H), 7.21 (d, <i>J</i> =8.60 Hz, 1 H), 6.19 (s, 1H), 4.18 (q, <i>J</i> =6.98 Hz, 2 H), 2.39 (d, <i>J</i> =5.07 Hz, 3 H), 1.34 (t, <i>J</i> =6.95 Hz, 3 H)
10	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2-methylpropyl)oxy]benzenesulfon amide trifluoroacetate	1.16 <sup>d</sup>	462.3 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.29 (s, 1 H), 8.54 (br. s., 1 H), 8.24 (s, 1 H), 8.10 (d, <i>J</i> =2.43 Hz, 1 H), 7.59 (d, <i>J</i> =9.04 Hz, 2 H), 7.47 (dd, <i>J</i> =8.49, 2.32 Hz, 1 H), 7.30 (m, 3 H), 7.22 (d, <i>J</i> =8.60 Hz, 1 H), 6.05 (s, 1 H), 3.86 (d, <i>J</i> =6.39 Hz, 2 H), 2.39 (d, <i>J</i> =5.07 Hz, 3 H), 2.01 (m, 1H), 0.91 (d, <i>J</i> =6.62 Hz, 6 H)
11	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1,2-dimethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.18 <sup>d</sup>	476.3 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 9.49 (br. s., 1 H), 8.71 (br. s., 1 H), 8.28 (s, 1 H), 8.04 (s, 1 H), 7.57 (d, $J$ =8.82 Hz, 2 H), 7.50 (dd, $J$ =8.71, 2.09 Hz, 1 H), 7.25 - 7.35 (m, 4 H), 6.03 (s, 1 H), 4.42 (m, 1 H), 2.40 (m, $J$ =4.85 Hz, 3 H), 1.85 (m, 1 H), 1.17 (d, $J$ =6.17 Hz, 3 H), 0.85 (t, $J$ =6.73 Hz, 6 H)

12	4-chloro-3-({6-[(4- chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	6.70 <sup>b</sup>	424.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.52 (br. s., 1 H), 9.19 (br. s., 1 H), 8.30 (s, 1 H), 8.21 (d, <i>J</i> =2.01 Hz, 1 H), 7.76 (d, <i>J</i> =8.28 Hz, 1 H), 7.58 - 7.65 (m, 3 H), 7.48 - 7.55 (m, 1 H), 7.35 - 7.42 (m, 2 H), 6.23 (s, 1 H), 2.46 (d, <i>J</i> =5.02 Hz, 3 H)
13	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	1.15 <sup>d</sup>	488.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.58 (br. s., 1 H), 9.07 (br. s., 1 H), 8.29 (s, 1 H), 8.07 (d, <i>J</i> =2.21 Hz, 1 H), 7.52 - 7.59 (m, 3 H), 7.38 - 7.44 (m, 2 H), 7.31 - 7.38 (m, 2 H), 6.11 (s, 1 H), 4.89 (q, <i>J</i> =8.82 Hz, 2 H), 2.41 (d, <i>J</i> =4.85 Hz, 3 H)
14	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclohexyloxy)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.23 <sup>d</sup>	488.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.46 (br. s., 1 H), 8.65 - 8.72 (br. s, 1 H), 8.28 (s, 1 H), 8.13 (d, <i>J</i> =2.21 Hz, 1 H), 7.54 - 7.61 (m, 2 H), 7.46 (dd, <i>J</i> =8.71, 2.32 Hz, 1 H), 7.26 - 7.35 (m, 4 H), 6.11 (s, 1 H), 4.46 - 4.53 (m, 1 H), 2.40 (d, <i>J</i> =5.07 Hz, 3 H), 1.86 (m, 2 H), 1.63 (m, 2 H), 1.47 (m, 3 H), 1.31 - 1.38 (m, 2 H), 1.24 (m, 1 H)
15	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1-ethylpropyl)oxy]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.19 <sup>d</sup>	476.3 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 9.47 (br. s., 1 H), 8.69 (br. s., 1 H) 8.27 (s, 1 H), 8.10 (br. s., 1 H), 7.55 (d, $J$ =9.04 Hz, 2 H), 7.46 (m., 1 H) 7.22 - 7.33 (m, 4 H), 6.08 (s, 1 H) 4.36 (m, 1 H), 2.39 (d, $J$ =4.85 Hz, 3 H), 1.56 - 1.63 (m, 4 H), 0.82 (t $J$ =7.39 Hz, 6 H)
16	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(3,3,3-trifluoropropyl)oxy]benzenesulfo namide trifluoroacetate	1.13 <sup>d</sup>	502.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.37 (br. s., 1 H), 8.48 (br. s., 1 H), 8.30 - 8.36 (m, 1 H), 8.27 (s, 1 H), 7.58 (d, <i>J</i> =8.82 Hz, 2 H), 7.40 - 7.46 (m, 1 H), 7.25 - 7.33 (m, 4 H), 6.14 (s, 1 H), 4.32 (t, <i>J</i> =5.95 Hz, 2 H), 2.82 (m, 2 H), 2.38 (d, <i>J</i> =4.85 Hz, 3 H)

17	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclopentyloxy)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.16 <sup>d</sup>	474.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.55 (br. s., 1 H), 8.81 (br. s., 1 H), 8.30 (s, 1 H), 8.04 - 8.11 (m, 1 H), 7.58 (d, <i>J</i> =8.78 Hz, 2 H), 7.51 (dd, <i>J</i> =8.66, 1.88 Hz, 1 H), 7.30 - 7.37 (m, 3 H), 7.23 (d, <i>J</i> =8.78 Hz, 1 H), 6.07 (s, 1 H), 4.91 - 4.98 (m, 1 H), 2.41 (d, <i>J</i> =4.77 Hz, 3 H), 1.91 (m, 2 H), 1.75 (m, 2 H), 1.62 (m, 2 H), 1.54 (m, 2 H)
18	5-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-2-fluoro-4-methoxy- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.04°	438.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.47 (d, 3H,obscured by solvent) 3.89 (s, 3 H) 6.08 (s, 1 H) 7.26 (d, $J$ =11.91 Hz, 1 H) 7.35 (d, $J$ =8.82 Hz, 2 H) 7.53 (d, $J$ =8.82 Hz, 2 H) 7.59 (q, $J$ =4.85 Hz, 1 H) 8.05 (d, $J$ =7.94 Hz, 1 H) 8.28 (s, 1 H) 9.07 (br. s., 1 H)
19	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[methyl(2,2,2-trifluoroethyl)amino]benzenesulf onamide trifluoroacetate	1.75ª	501.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =5.02 Hz, 3 H) 2.99 (s, 3 H) 4.00 (q, <i>J</i> =9.79, 2 H) 5.90 (s, 1 H) 7.33 - 7.42 (m, 4 H) 7.55 (dd, <i>J</i> =8.53, 2.26 Hz, 1 H) 7.59 (d, <i>J</i> =8.78 Hz, 2 H) 7.84 (d, <i>J</i> =2.01 Hz, 1 H) 8.31 (s, 1 H) 8.98 (br. s., 1 H) 9.53 (br. s., 1 H)
20	1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}- <i>N</i> ,3,3-trimethyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	2.46ª	444.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 1.38 (s, 6 H) 2.43 (d, $J$ =4.27 Hz, 3 H) 6.07 (br. s., 1 H) 7.33 - 7.75 (m, 8 H) 8.46 (s, 1 H) 8.78 (br. s., 1 H) 9.56 (br. s., 1 H)
21	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide trifluoroacetate	2.31ª	502.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 1.54 (d, <i>J</i> =6.27 Hz, 3 H) 2.57 (s, 3 H) 5.20 (dt, <i>J</i> =12.49, 6.18 Hz, 1 H) 6.15 (s, 1 H) 7.35 (d, <i>J</i> =9.03 Hz, 2 H) 7.39 (d, <i>J</i> =8.78 Hz, 1 H) 7.47 (d, <i>J</i> =9.03 Hz, 2 H) 7.65 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 8.23 (d, <i>J</i> =2.26 Hz, 1 H) 8.26 (d, <i>J</i> =0.75 Hz, 1 H)

22	5-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-2-fluoro- <i>N</i> -methyl-4- (2,2,2- trifluoroethoxy)benzenesulfona mide trifluoroacetate	1.13°	506.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 4.91 (q, <i>J</i> =8.82 Hz, 2 H) 6.02 (s, 1 H) 7.33 (d, 2 H) 7.44 (d, <i>J</i> =11.69 Hz, 1 H) 7.57 (d, <i>J</i> =9.04 Hz, 2 H) 7.69 (q, <i>J</i> =4.85 Hz, 1 H) 7.93 (d, <i>J</i> =7.72 Hz, 1 H) 8.21 - 8.26 (m, 1 H) 8.92 (br. s., 1 H) 9.48 (br. s., 1 H)
23	4-amino-3-({6-[(4- chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.91 <sup>a</sup>	405.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.37 (d, $J$ =4.02 Hz, 3 H) 5.70 (br. s., 1 H) 6.88 (d, $J$ =8.53 Hz, 1 H) 7.07 - 7.15 (m, 1 H) 7.37 - 7.58 (m, 6 H) 8.41 (s, 1 H) 9.38 (br. s., 1 H) 10.02 (br. s., 1 H)
24	5-[6-(4-chloro-phenylamino)-pyrimidin-4-ylamino]-4-dimethylamino-2-fluoro- <i>N</i> -methyl-benzenesulfonamide	1.06°	451.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.45 (d, $J$ =4.85 Hz, 3 H) 2.78 (s, 6 H) 5.79 (s, 1 H) 6.91 (d, $J$ =13.23 Hz, 1 H) 7.29 (d, $J$ =8.82 Hz, 2 H) 7.47 (q, $J$ =4.92 Hz, 1 H) 7.54 - 7.60 (m, 3 H) 8.20 (s, 1 H) 8.69 (br. s., 1 H) 9.31 (br. s., 1 H)
25	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-piperidinyl)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.30ª	509.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.67 - 1.75 (m, 2 H) 1.94 - 2.06 (m, 2 H) 2.43 (d, <i>J</i> =5.02 Hz, 3 H) 3.03 (d, <i>J</i> =5.02 Hz, 2 H) 3.27 (t, <i>J</i> =11.54 Hz, 2 H) 5.99 (s, 1 H) 7.34 (d, <i>J</i> =8.53 Hz, 1 H) 7.38 (d, <i>J</i> =8.78 Hz, 2 H) 7.43 (q, <i>J</i> =4.94 Hz, 1 H) 7.56 (d, <i>J</i> =8.53 Hz, 1 H) 7.59 (d, <i>J</i> =8.78 Hz, 2 H) 7.94 (br. s., 1 H) 8.34 (s, 1 H) 8.93 (br. s., 1 H) 9.68 (br. s., 1 H)
26	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-{[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]oxy}benzenesulfonamide trifluoroacetate	1.88ª	556.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.46 (d, <i>J</i> =5.02 Hz, 3 H) 6.12 (s, 1 H) 6.61 - 6.73 (m, 1 H) 7.36 (d, <i>J</i> =8.78 Hz, 2 H) 7.51 (d, <i>J</i> =5.02 Hz, 1 H) 7.58 - 7.65 (m, 4 H) 8.12 (s, 1 H) 8.28 (s, 1 H) 9.04 (br. s., 1 H) 9.51 (br. s., 1 H)

27	4-(dimethylamino)-3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	5.73 <sup>b</sup>	417.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.67 (br. s., 1 H), 9.09 (br. s., 1 H), 8.33 (s, 1 H), 7.83 (s, 1 H), 7.57 (d, <i>J</i> =11.72 Hz, 1 H), 7.50 (dd, <i>J</i> =8.55, 1.95 Hz, 1 H), 7.33 (q, <i>J</i> =7.89 Hz, 1 H), 7.23 - 7.29 (m, 2 H), 7.19 (d, <i>J</i> =8.79 Hz, 1 H), 6.80 - 6.86 (m, 1 H), 6.05 (s, 1 H), 2.77 (s, 6 H), 2.41 (d, <i>J</i> =4.64 Hz, 3 H)
28	3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(4-morpholinyl)benzenesulfonamid e trifluoroacetate	5.57 <sup>b</sup>	459.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.62 (br. s., 1 H), 8.92 (br. s., 1 H), 8.34 (s, 1 H), 7.93 (s, 1 H), 7.65 (m, 1 H), 7.53 (dd, <i>J</i> =8.30, 1.71 Hz, 1 H), 7.31 - 7.36 (m, 2 H), 7.26 (d, <i>J</i> =8.55 Hz, 2 H), 6.78 - 6.84 (m, 1 H), 6.09 (s, 1 H), 3.64 (m, 4 H), 2.94 - 3.00 (m, 4 H), 2.43 (d, <i>J</i> =4.88 Hz, 3 H)
29	1-{6-[(3-fluorophenyl)amino]-4-pyrimidinyl}- <i>N</i> -methyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	5.95⁵	400.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.61 (s, 1 H), 8.81 (s, 1 H), 8.48 (s, 1 H), 7.78 (d, <i>J</i> =12.21 Hz, 1 H), 7.36 - 7.42 (m, 2 H), 7.29 - 7.35 (m, 3 H), 6.75 - 6.81 (m, 1 H), 6.08 (s, 1 H), 4.05 (t, <i>J</i> =8.67 Hz, 2 H), 3.28 (m, 2H), 2.42 (d, <i>J</i> =5.13 Hz, 3 H)
30	3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methyloxy)benzenesulfonamide trifluoroacetate	5.52 <sup>b</sup>	404.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- $d_6$ ) δ ppm 9.44 (br. s., 1 H), 8.80 (br. s., 1 H), 8.37 (s, 1 H), 8.32 (s, 1 H), 7.61 (d, $J$ =11.96 Hz, 1 H), 7.48 (dd, $J$ =8.67, 2.08 Hz, 1 H), 7.23 - 7.31 (m, 4 H), 6.78 - 6.81 (m, 1 H), 6.28 (s, 1 H), 3.92 (s, 3 H), 2.42 (d, $J$ =4.88 Hz, 3 H)
31	N-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-(methylthio)benzenesulfonamidehydrochloride	2.27ª	444.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 9.07 (br. s., 1 H), 8.72 (br. s., 1 H), 8.15 (s, 1 H), 7.67 - 7.74 (m, 1 H), 7.59 - 7.64 (m, 1 H), 7.44 - 7.51 (m, 2 H), 7.40 (d, <i>J</i> =8.28 Hz, 2 H), 7.16 (d, <i>J</i> =8.28 Hz, 2 H), 5.86 (s, 1 H), 2.83 (m, 1 H), 2.49 (s, 3 H), 2.42 (d, <i>J</i> =5.02 Hz, 3 H), 1.18 (d, <i>J</i> =6.78 Hz, 6 H)

32	3-[(6-{[3-chloro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- [(2,2,2- trifluoroethyl)oxy]benzenesulfon amide hydrochloride	2.40ª	518.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.49 (d, <i>J</i> =5.02 Hz, 3 H) 3.88 (s, 3 H) 4.96 (q, <i>J</i> =8.78 Hz, 2 H) 6.13 - 6.16 (m, 1 H) 7.14 - 7.19 (m, 1 H) 7.41 - 7.48 (m, 3 H) 7.53 - 7.58 (m, 1 H) 7.79 - 7.82 (m, 1 H) 8.25 - 8.28 (m, 1 H) 8.28 - 8.30 (m, 1 H) 8.69 - 8.72 (m, 1 H) 9.16 - 9.18 (m, 1 H)
33	3-[(6-{[3-chloro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide trifluoroacetate	2.21 <sup>a</sup>	450.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, <i>J</i> =5.02 Hz, 3 H) 3.91 (s, 3 H) 3.98 (s, 3 H) 6.14 (s, 1 H) 7.22 (d, <i>J</i> =9.03 Hz, 1 H) 7.36 (d, <i>J</i> =8.78 Hz, 1 H) 7.41 (dd, <i>J</i> =8.91, 2.64 Hz, 2 H) 7.63 (dd, <i>J</i> =8.66, 2.13 Hz, 1 H) 7.70 (d, <i>J</i> =2.51 Hz, 1 H) 8.20 (br. s., 1 H) 8.40 (s, 1 H) 9.39 (br. s., 1 H) 9.72 (br. s., 1 H)
34	N-methyl-4-(methyloxy)-3-({6- [(4-{[2- (methyloxy)ethyl]oxy}phenyl)ami no]-4- pyrimidinyl}amino)benzenesulfo namide hydrochloride	2.02ª	460.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.40 (d, <i>J</i> =4.77 Hz, 3 H) 3.32 (s, 3 H) 3.64 - 3.70 (m, 2 H) 3.91 (s, 3 H) 4.10 (dd, <i>J</i> =5.27, 3.76 Hz, 2 H) 6.07 (br. s., 1 H) 7.00 (d, <i>J</i> =8.78 Hz, 2 H) 7.33 (dd, <i>J</i> =8.78, 4.52 Hz, 3 H) 7.44 (q, <i>J</i> =4.60 Hz, 1 H) 7.65 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.93 (br. s., 1 H) 8.39 (s, 1 H) 9.83 (br. s., 1 H) 10.16 (br. s., 1 H)
35	N-methyl-3-({6-[(4-{[2- (methyloxy)ethyl]oxy}phenyl)ami no]-4-pyrimidinyl}amino)-4- [(2,2,2- trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.22ª	528.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =5.02 Hz, 3 H) 3.64 - 3.68 (m, 2 H) 4.08 (dd, <i>J</i> =5.52, 3.76 Hz, 2 H) 4.91 (d, <i>J</i> =8.78 Hz, 2 H) 5.98 - 6.02 (m, 1 H) 6.97 (d, <i>J</i> =9.03 Hz, 1 H) 7.32 (s, 1 H) 7.41 - 7.46 (m, 1 H) 7.58 - 7.63 (m, 1 H) 7.99 - 8.02 (m, 1 H) 8.28 (s, 1 H) 9.30 (br. s., 1 H) 9.55 (br. S., 1 H)
36	N-methyl-4-(methyloxy)-3-[(6- {[4-(2,2,2- trifluoroethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.30ª	468.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.41 (d, <i>J</i> =4.88 Hz, 3 H) 3.58 (q, <i>J</i> =11.72 Hz, 2 H) 3.92 (s, 3 H) 6.26 (s, 1 H) 7.23 - 7.33 (m, 4 H) 7.47 - 7.53 (m, 3 H) 8.30 (br. s., 2 H) 8.98 (br. s., 1 H) 9.46 (br. s., 1 H)

37	N-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	2.42ª	536.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (d, <i>J</i> =4.52 Hz, 3 H) 3.62 (q, <i>J</i> =11.54 Hz, 2 H) 4.92 (q, <i>J</i> =8.70 Hz, 2 H) 6.16 (s, 1 H) 7.35 (d, <i>J</i> =8.28 Hz, 2 H) 7.43 - 7.52 (m, 4 H) 7.64 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.99 (d, <i>J</i> =2.01 Hz, 1 H) 8.37 (s, 1 H) 9.57 (br. s., 1 H) 9.95 (br. s., 1 H)
38	N-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)thio]benzenesulfon amide trifluoroacetate	2.36ª	552.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 3.57 (q, <i>J</i> =11.71 Hz, 2 H) 4.10 (q, <i>J</i> =10.37 Hz, 2 H) 5.99 (s, 1 H) 7.27 (d, <i>J</i> =8.28 Hz, 2 H) 7.50 - 7.60 (m, 4 H) 7.78 (d, <i>J</i> =2.01 Hz, 1 H) 7.82 (d, <i>J</i> =8.53 Hz, 1 H) 8.21 (s, 1 H) 9.04 (s, 1 H) 9.34 (s, 1 H)
39	4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -[2-(methyloxy)ethyl]benzamide trifluoroacetate	1.92ª	503.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.38 - 3.49 (m, 4 H) 3.97 (s, 3 H) 5.91 (s, 1 H) 7.47 (q, <i>J</i> =4.85 Hz, 1 H) 7.54 (d, <i>J</i> =8.28 Hz, 1 H) 7.61 - 7.69 (m, 4 H) 7.80 (d, <i>J</i> =8.78 Hz, 2 H) 8.30 (s, 1 H) 8.34 - 8.38 (m, 1 H) 9.16 (br. s., 1 H) 9.67 (br. s., 1 H)
40	N-methyl-4-(methyloxy)-3-[(6- {[4-(1 <i>H</i> -pyrazol-1- yl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.04 <sup>a</sup>	452.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =4.77 Hz, 3 H) 3.93 (s, 3 H) 6.22 (s, 1 H) 6.51 - 6.57 (m, 1 H) 7.30 (d, <i>J</i> =8.78 Hz, 1 H) 7.34 (q, <i>J</i> =4.77 Hz, 1 H) 7.56 (dd, <i>J</i> =8.53, 2.26 Hz, 1 H) 7.62 (d, <i>J</i> =9.03 Hz, 2 H) 7.73 (d, <i>J</i> =1.51 Hz, 1 H) 7.82 (d, <i>J</i> =9.03 Hz, 2 H) 8.22 (s, 1 H) 8.37 (s, 1 H) 8.44 (d, <i>J</i> =2.51 Hz, 1 H) 9.24 (br. s., 1 H) 9.75 (br. s., 1 H)
41	N-methyl-3-[(6-{[4-(1H-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.24ª	520.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.92 (q, <i>J</i> =8.78 Hz, 2 H) 6.18 (s, 1 H) 6.51 - 6.55 (m, 1 H) 7.37 - 7.43 (m, 2 H) 7.50 - 7.54 (m, 1 H) 7.70 (d, <i>J</i> =8.78 Hz, 3 H) 7.75 (s, 2 H) 8.19 - 8.21 (m, 1 H) 8.28 (s, 1 H) 8.39 - 8.42 (m, 1 H) 8.74 (br. s., 1 H) 9.36 (br. s., 1 H)

42	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-{[6-({4- [(2,2,2- trifluoroethyl)oxy]phenyl}amino)- 4- pyrimidinyl]amino}benzenesulfo namide trifluoroacetate	1.77 <sup>a</sup>	552.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =4.88 Hz, 3 H) 4.72 (q, <i>J</i> =9.03 Hz, 2 H) 4.90 (q, <i>J</i> =8.79 Hz, 2 H) 6.05 (s, 1 H) 7.05 (d, <i>J</i> =8.79 Hz, 2 H) 7.34 - 7.58 (m, 5 H) 8.10 (br. s., 1 H) 8.25 (s, 1 H) 8.99 (none, 1 H) 9.29 - 9.40 (m, 1 H)
43	N-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	1.88ª	522.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.92 (q, <i>J</i> =8.78 Hz, 2 H) 6.21 (s, 1 H) 7.37 - 7.45 (m, 2 H) 7.55 (dd, <i>J</i> =8.53, 2.26 Hz, 1 H) 7.64 (d, <i>J</i> =8.53 Hz, 2 H) 7.83 (d, <i>J</i> =8.53 Hz, 2 H) 8.15 (d, <i>J</i> =2.01 Hz, 1 H) 8.33 (s, 1 H) 8.87 (br. s., 1 H) 9.64 (br. s., 1 H)
44	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.21ª	409.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.45 (d, <i>J</i> =4.52 Hz, 3 H) 6.26 (s, 1 H) 7.22 - 7.30 (m, 1 H) 7.32 - 7.46 (m, 1 H) 7.52 (d, <i>J</i> =7.78 Hz, 3 H) 7.76 - 7.86 (m, 1 H) 8.37 (s, 1 H) 8.42 (br. s., 1 H) 9.52 (br. s., 1 H) 9.70 (br. s., 1 H)
45	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide trifluoroacetate	2.35ª	503.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.45 (d, <i>J</i> =6.27 Hz, 3 H) 2.44 (d, <i>J</i> =4.52 Hz, 3 H) 5.32 - 5.44 (m, 1 H) 6.11 (s, 1 H) 7.23 - 7.28 (m, 1 H) 7.30 - 7.39 (m, 1 H) 7.41 (q, <i>J</i> =4.85 Hz, 1 H) 7.49 (m, <i>J</i> =7.28 Hz, 2 H) 7.83 - 7.92 (m, 1 H) 8.19 (d, <i>J</i> =2.01 Hz, 1 H) 8.28 (s, 1 H) 8.64 (s, 1 H) 9.39 (s, 1 H)
46	1-{6-[(3,4-difluorophenyl)amino]- 4-pyrimidinyl}- <i>N</i> ,3,3-trimethyl- 2,3-dihydro-1 <i>H</i> -indole-6- sulfonamide trifluoroacetate	2.52ª	445.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.39 (s, 6 H) 2.43 (d, <i>J</i> =4.52 Hz, 3 H) 3.80 (s, 2 H) 6.05 (s, 1 H) 7.28 - 7.50 (m, 5 H) 7.90 - 7.99 (m, 1 H) 8.49 (s, 1 H) 8.78 (d, <i>J</i> =1.51 Hz, 1 H) 9.68 (s, 1 H)

				$^{1}$ H NMR (400 MHz, DMSO- $d_{6}$ ) $\delta$ ppm
47	3-[6-(6-bromo-4-methyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]- N-methyl-4-(2,2,2-trifluoro- ethoxy)-benzenesulfonamide trifluoroacetate	1.16°	548.8 (M+H) <sup>†</sup>	2.24 (s, 3 H) 2.40 (d, <i>J</i> =5.07 Hz, 3 H) 4.87 (q, <i>J</i> =8.23 Hz, 2 H) 6.83 (s, 1 H) 7.00 (s, 1 H) 7.40 (m, <i>J</i> =8.60 Hz, 2 H) 7.53 (m, <i>J</i> =13.67 Hz, 2 H) 7.94 (d, <i>J</i> =1.98 Hz, 1 H) 8.28 (s, 1 H) 9.04 (br. s., 1 H) 10.08 (br. s., 1 H)
48	3-({6-[(3,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	1.75ª	523.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.92 (q, <i>J</i> =8.78 Hz, 2 H) 7.22 (s, 1 H) 7.40 - 7.46 (m, 2 H) 7.60 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 8.08 (d, <i>J</i> =2.26 Hz, 1 H) 8.28 (d, <i>J</i> =2.26 Hz, 1 H) 8.35 - 8.39 (m, 2 H) 9.12 (br. s., 1 H) 9.39 (br. s., 1 H)
49	3-{[6-(3-biphenylylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.26ª	432.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.84 (br. s., 1H), 9.67 (br. s., 1H), 8.41 (s, 1H), 8.04 (s, 1H), 7.88 (d, $J$ = 8.06 Hz, 1H), 7.79 (s, 1H), 7.66 (d, $J$ = 7.55 Hz, 2H), 7.42 - 7.58 (m, 6H), 7.33 - 7.42 (m, 3H), 6.24 (s, 1H), 2.44 (d, $J$ = 4.78 Hz, 3H)
50	N-methyl-3-({6-[(4-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide hydrochloride	2.03ª	370.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.49 (s, 1H), 9.13 (s, 1H), 8.30 (s, 1H), 8.07 - 8.14 (m, 1H), 7.85 - 7.92 (m, 1H), 7.50 (t, $J = 8.03$ Hz, 1H), 7.37 - 7.46 (m, 3H), 7.31 (d, $J = 7.78$ Hz, 1H), 7.13 (d, $J = 8.28$ Hz, 2H), 6.15 (s, 1H), 2.44 (d, $J = 5.02$ Hz, 3H), 2.27 (s, 3H)
51	3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide	1.66ª	399.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.58 (s, 1H), 9.39 (s, 1H), 8.36 (s, 1H), 8.11 (t, $J$ = 1.88 Hz, 1H), 7.98 - 8.01 (m, 1H), 7.89 - 7.96 (m, 2H), 7.76 - 7.81 (m, 1H), 7.46 - 7.54 (m, 2H), 7.43 (q, $J$ = 5.02 Hz, 1H), 7.31 - 7.41 (m, 3H), 6.21 (s, 1H), 2.45 (d, $J$ = 5.02 Hz, 3H)

52	3-({6-[(3-acetylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.90ª	398.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.84 (br. s., 1H), 9.76 (br. s., 1H), 8.42 (s, 1H), 8.06 (s, 1H), 8.10 (s, 1H), 7.84 - 7.94 (m, 2H), 7.65 (d, <i>J</i> = 7.78 Hz, 1H), 7.44 - 7.59 (m, 3H), 7.39 (d, <i>J</i> = 7.53 Hz, 1H), 6.24 (s, 1H), 2.59 (s, 3H), 2.45 (d, <i>J</i> = 3.26 Hz, 3H)
53	N-methyl-3-[(6-{[3- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.13ª	386.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.77 (s, 1H), 9.49 (br. s., 1H), 8.38 (s, 1H), 8.06 (s, 1H), 7.88 (d, <i>J</i> = 8.28 Hz, 1H), 7.54 (t, <i>J</i> = 7.91 Hz, 1H), 7.46 (q, <i>J</i> = 4.68 Hz, 1H), 7.38 (d, <i>J</i> = 7.78 Hz, 1H), 7.21 - 7.29 (m, 1H), 7.18 (s, 1H), 7.09 (d, <i>J</i> = 8.03 Hz, 1H), 6.65 (dd, <i>J</i> = 2.01, 8.03 Hz, 1H), 6.22 (s, 1H), 3.76 (s, 3H), 2.44 (d, <i>J</i> = 4.77 Hz, 3H)
54	N-(3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}phenyl)aceta mide trifluoroacetate	1.80ª	413.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.97 (s, 1H), 9.72 (s, 1H), 9.47 (br. s., 1H), 8.36 (s, 1H), 8.06 (s, 1H), 7.88 (dd, $J = 1.51$ , 8.03 Hz, 1H), 7.81 (s, 1H), 7.53 (t, $J = 7.91$ Hz, 1H), 7.45 (q, $J = 4.85$ Hz, 1H), 7.37 (d, $J = 7.78$ Hz, 1H), 7.21 - 7.29 (m, 3H), 6.20 (s, 1H), 2.44 (d, $J = 5.02$ Hz, 3H), 2.05 (s, 3H)
55	N-methyl-3-{[6-(phenylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	1.89ª	356.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.75 (br. s., 1H), 9.49 (br. s., 1H), 8.38 (s, 1H), 8.07 (br. s., 1H), 7.87 (d, $J = 8.03$ Hz, 1H), 7.53 (d, $J = 6.78$ Hz, 3H), 7.46 (d, $J = 4.27$ Hz, 1H), 7.29 - 7.41 (m, 3H), 7.02 - 7.16 (m, 1H), 6.99 (s, 1H), 6.20 (s, 1H), 2.44 (d, $J = 4.27$ Hz, 3H)
56	4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide trifluoroacetate	1.81ª	399.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (s, 1H), 9.64 (s, 1H), 8.42 (s, 1H), 8.07 - 8.10 (m, 1H), 7.91 (dd, $J$ = 1.38, 8.16 Hz, 1H), 7.84 (d, $J$ = 8.78 Hz, 3H), 7.66 (d, $J$ = 8.78 Hz, 2H), 7.54 (t, $J$ = 8.03 Hz, 1H), 7.45 (q, $J$ = 4.77 Hz, 1H), 7.37 (d, $J$ = 7.78 Hz, 1H), 7.18 - 7.25 (m, 1H), 6.27 (s, 1H), 2.45 (d, $J$ = 4.77 Hz, 3H)

57	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.08ª	390.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.60 (br. s., 1H), 9.43 (br. s., 1H), 8.36 (s, 1H), 8.10 (br. s., 1H), 7.91 (d, <i>J</i> = 7.78 Hz, 1H), 7.64 (d, <i>J</i> = 8.28 Hz, 2H), 7.52 (t, <i>J</i> = 7.78 Hz, 1H), 7.44 (d, <i>J</i> = 4.52 Hz, 1H), 7.36 (d, <i>J</i> = 7.53 Hz, 3H), 6.19 (s, 1H), 2.45 (d, <i>J</i> = 4.52 Hz, 3H)
58	N-methyl-3-[(6-{[3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.24ª	424.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.69 (d, <i>J</i> = 5.52 Hz, 2H), 8.42 (s, 1H), 8.11 (s, 1H), 8.08 (t, <i>J</i> = 1.76 Hz, 1H), 7.91 - 7.96 (m, 1H), 7.86 (d, <i>J</i> = 8.78 Hz, 1H), 7.54 (t, <i>J</i> = 8.03 Hz, 2H), 7.45 (q, <i>J</i> = 4.94 Hz, 1H), 7.36 (d, <i>J</i> = 8.03 Hz, 1H), 7.31 (d, <i>J</i> = 7.78 Hz, 1H), 6.22 (s, 1H), 2.45 (d, <i>J</i> = 4.77 Hz, 3H)
59	N-methyl-3-({6-[(2-methyl-1,2,3,4-tetrahydro-7-isoquinolinyl)amino]-4-pyrimidinyl}amino)benzene sulfonamide trifluoroaceate	1.51ª	425.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (s, 1H), 9.21 (s, 1H), 8.33 (s, 1H), 8.08 (s, 1H), 7.84 - 7.90 (m, 1H), 7.70 - 7.79 (m, 1H), 7.48 - 7.57 (m, 1H), 7.45 (q, <i>J</i> = 4.85 Hz, 1H), 7.36 (d, <i>J</i> = 7.78 Hz, 1H), 7.27 - 7.34 (m, 1H), 7.16 - 7.25 (m, 2H), 6.12 (s, 1H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
60	3-({6-[(2-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.91ª	374.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (s, 1H), 9.21 (s, 1H), 8.33 (s, 1H), 8.08 (s, 1H), 7.83 - 7.89 (m, 1H), 7.71 - 7.78 (m, 1H), 7.49 - 7.56 (m, 1H), 7.45 (q, <i>J</i> = 4.85 Hz, 1H), 7.36 (d, <i>J</i> = 7.78 Hz, 1H), 7.27 - 7.34 (m, 1H), 7.17 - 7.25 (m, 2H), 6.12 (s, 1H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
61	N-methyl-3-[(6-{[3-(4-morpholinylsulfonyl)phenyl]amin o}-4-pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.01 <sup>a</sup>	505.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.72 (s, 1H), 9.76 (s, 1H), 8.42 (s, 1H), 8.05 (s, 1H), 8.09 (s, 1H), 8.01 (d, <i>J</i> = 8.28 Hz, 1H), 7.92 (d, <i>J</i> = 7.78 Hz, 1H), 7.50 - 7.64 (m, 2H), 7.45 (d, <i>J</i> = 4.02 Hz, 1H), 7.28 - 7.41 (m, 2H), 6.23 (s, 1H), 3.66 (m, 4H), 2.91 (m, 4H), 2.45 (d, <i>J</i> = 3.51 Hz, 3H)

62	3-{[6-({3- [(ethylamino)sulfonyl]phenyl}ami no)-4-pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.96ª	463.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.60 - 9.79 (m, 2H), 8.40 (s, 1H), 8.09 (m, 2H), 7.91 (t, <i>J</i> = 6.53 Hz, 2H), 7.48 - 7.60 (m, 3H), 7.45 (q, <i>J</i> = 4.68 Hz, 1H), 7.29 - 7.42 (m, 2H), 6.22 (s, 1H), 2.76 - 2.90 (m, 2H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H), 1.00 (t, <i>J</i> = 7.28 Hz, 3H)
63	N-methyl-3-[(6-{[3- (methylsulfonyl)phenyl]amino}- 4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.87ª	434.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.79 (s, 1H), 9.74 (s, 1H), 8.43 (s, 1H), 8.21 (s, 1H), 8.08 (s, 1H), 7.99 (d, <i>J</i> = 7.78 Hz, 1H), 7.93 (d, <i>J</i> = 8.03 Hz, 1H), 7.49 - 7.63 (m, 3H), 7.43 - 7.49 (m, 1H), 7.37 (d, <i>J</i> = 7.78 Hz, 1H), 6.24 (s, 1H), 3.22 (s, 3H), 2.45 (d, <i>J</i> = 4.52 Hz, 3H)
64	3-{[6-(1 <i>H</i> -indazol-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.83ª	396.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.78 (br. s., 1H), 9.66 (br. s., 1H), 8.43 (s, 1H), 8.07 (s, 1H), 7.96 - 8.05 (m, 2H), 7.88 (d, $J = 7.78$ Hz, 1H), 7.70 (d, $J = 8.78$ Hz, 1H), 7.55 (t, $J = 7.91$ Hz, 1H), 7.46 (q, $J = 4.35$ Hz, 1H), 7.40 (s, 1H), 7.11 (dd, $J = 1.76$ , 8.53 Hz, 1H), 6.25 (s, 1H), 2.44 (d, $J = 4.77$ Hz, 3H)
65	3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}- <i>N</i> - phenylbenzamide trifluoroacetate	2.11 <sup>a</sup>	475.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.27 (br. s., 1H), 9.78 (br. s., 1H), 9.68 (br. s., 1H), 8.42 (s, 1H), 8.07 (d, $J = 8.28$ Hz, 2H), 7.90 (d, $J = 8.03$ Hz, 1H), 7.85 (d, $J = 7.78$ Hz, 1H), 7.79 (d, $J = 8.03$ Hz, 2H), 7.62 (d, $J = 7.28$ Hz, 1H), 7.43 - 7.60 (m, 3H), 7.30 - 7.43 (m, 3H), 7.07 - 7.17 (m, 1H), 6.24 (s, 1H), 2.45 (d, $J = 4.52$ Hz, 3H)
66	3-{[6-({3- [(dimethylamino)sulfonyl]phenyl} amino)-4-pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.03ª	463.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.77 (s, 1H), 9.75 (s, 1H), 8.42 (s, 1H), 7.98 - 8.09 (m, 3H), 7.92 (d, $J$ = 8.03 Hz, 1H), 7.51 - 7.61 (m, 2H), 7.46 (d, $J$ = 4.77 Hz, 1H), 7.38 (d, $J$ = 7.53 Hz, 1H), 7.33 (d, $J$ = 7.78 Hz, 1H), 6.22 (s, 1H), 2.65 (s, 6H), 2.45 (d, $J$ = 4.52 Hz, 3H)

67	3-[(6-{[3- (aminosulfonyl)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.81ª	435.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.69 (s, 1H), 9.67 (s, 1H), 8.40 (s, 1H), 8.11 (s, 1H), 8.08 (s, 1H), 7.89 - 7.95 (m, 1H), 7.86 (d, $J = 8.03$ Hz, 1H), 7.41 - 7.57 (m, 4H), 7.34 - 7.39 (m, 3H), 6.22 (s, 1H), 2.45 (d, $J = 4.77$ Hz, 3H)
68	3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}- <i>N</i> -(1- methylethyl)benzenesulfonamid e trifluoroacetate	2.06ª	477.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (br. s., 1H), 9.69 (br. s., 1H), 8.41 (s, 1H), 8.10 - 8.14 (m, 1H), 8.06 - 8.10 (m, 1H), 7.92 (d, <i>J</i> = 7.78 Hz, 1H), 7.88 (d, <i>J</i> = 8.03 Hz, 1H), 7.60 (d, <i>J</i> = 7.28 Hz, 1H), 7.48 - 7.57 (m, 2H), 7.43 - 7.48 (m, 1H), 7.37 (d, <i>J</i> = 7.78 Hz, 1H), 7.40 (d, <i>J</i> = 7.78 Hz, 1H), 6.22 (s, 1H), 3.28 (dq, <i>J</i> = 6.60, 13.08 Hz, 1H), 2.45 (d, <i>J</i> = 4.77 Hz, 3H), 0.99 (d, <i>J</i> = 6.27 Hz, 6H)
69	3-({6-[(4-acetylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.99ª	398.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.74 (s, 1H), 9.68 (s, 1H), 8.43 (s, 1H), 8.08 - 8.14 (m, 1H), 7.90 - 7.97 (m, 3H), 7.78 (d, $J = 9.03$ Hz, 2H), 7.53 (t, $J = 7.91$ Hz, 1H), 7.45 (d, $J = 5.02$ Hz, 1H), 7.36 (d, $J = 7.53$ Hz, 1H), 6.30 (s, 1H), 2.52 (s, 3H), 2.45 (d, $J = 5.02$ Hz, 3H)
70	N-methyl-3-[(6-{[4- (methylsulfonyl)phenyl]amino}- 4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.94ª	434.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.85 (s, 1H), 9.72 (s, 1H), 8.45 (s, 1H), 8.09 - 8.12 (m, 1H), 7.93 (dd, $J = 1.76$ , 8.03 Hz, 1H), 7.80 - 7.91 (m, 4H), 7.54 (t, $J = 7.91$ Hz, 1H), 7.45 (q, $J = 5.02$ Hz, 1H), 7.37 (d, $J = 7.78$ Hz, 1H), 6.30 (s, 1H), 3.16 (s, 3H), 2.45 (d, $J = 5.02$ Hz, 3H)
71	N-(4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}phenyl)aceta mide trifluoroacetate	1.76ª	413.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.94 (s, 1H), 9.75 (br. s., 1H), 9.43 (br. s., 1H), 8.35 (s, 1H), 8.05 (s, 1H), 7.85 (d, $J = 8.53$ Hz, 1H), 7.50 - 7.60 (m, 3H), 7.46 (q, $J = 4.27$ Hz, 1H), 7.36 - 7.43 (m, 3H), 6.12 (s, 1H), 2.44 (d, $J = 4.02$ Hz, 3H), 2.04 (s, 3H)

72	N-(3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}phenyl)propan amide trifluoroacetate	1.88ª	427.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.90 (s, 1H), 9.75 (s, 1H), 9.49 (br. s., 1H), 8.36 - 8.39 (m, 1H), 8.06 (s, 1H), 7.88 (d, $J$ = 7.78 Hz, 1H), 7.82 (s, 1H), 7.53 (t, $J$ = 7.91 Hz, 1H), 7.45 (q, $J$ = 5.02 Hz, 1H), 7.38 (d, $J$ = 7.78 Hz, 1H), 7.22 - 7.29 (m, 3H), 6.20 (s, 1H), 2.44 (d, $J$ = 4.77 Hz, 3H), 2.33 (q, $J$ = 7.53 Hz, 2H), 1.09 (t, $J$ = 7.53 Hz, 3H)
73	4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}- <i>N</i> - phenylbenzamide trifluoroacetate	2.14ª	475.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.08 (s, 1H), 9.66 (br. s., 1H), 9.65 (br. s., 1H), 8.43 (s, 1H), 8.11 (s, 1H), 7.91 - 7.97 (m, 3H), 7.75 - 7.81 (m, 4H), 7.53 (t, $J = 7.91$ Hz, 1H), 7.45 (q, $J = 4.94$ Hz, 1H), 7.32 - 7.39 (m, 3H), 7.06 - 7.13 (m, 1H), 6.29 (s, 1H), 2.45 (d, $J = 5.02$ Hz, 3H)
74	3-({6-[(1,1-dioxido-2,3-dihydro-1,2-benzisothiazol-6-yl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.83ª	447.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.76 (s, 1H), 9.72 (s, 1H), 8.46 (s, 1H), 8.33 (s, 1H), 8.09 (s, 1H), 7.93 (d, $J = 8.03$ Hz, 1H), 7.81 (br. s., 1H), 7.65 - 7.71 (m, 1H), 7.54 (t, $J = 8.03$ Hz, 1H), 7.43 - 7.51 (m, 2H), 7.37 (d, $J = 7.78$ Hz, 1H), 6.23 (s, 1H), 4.35 (s, 2H), 2.45 (d, $J = 4.77$ Hz, 3H)
75	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1 <i>H</i> -indol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide trifluoroacetate	1.76ª	411.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.41 (br. s., 1H), 9.75 (br. s., 1H), 9.48 (br. s., 1H), 8.38 (br. s., 1H), 8.06 (br. s., 1H), 7.87 (d, $J = 7.53$ Hz, 1H), 7.54 (t, $J = 7.40$ Hz, 1H), 7.42 - 7.50 (m, 1H), 7.38 (d, $J = 7.03$ Hz, 1H), 7.20 (br. s., 1H), 7.16 (d, $J = 7.28$ Hz, 1H), 7.01 (d, $J = 6.78$ Hz, 1H), 6.18 (br. s., 1H), 3.44 (br. s., 2H), 2.42 - 2.48 (m, $J = 3.51$ Hz, 3H)
76	N-methyl-3-({6-[(2-methyl-1,3-benzothiazol-5-yl)amino]-4-pyrimidinyl}amino)benzene sulfonamide trifluoroacetate	1.98ª	427.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.79 (br. s., 1H), 9.68 (br. s., 1H), 8.42 (s, 1H), 8.21 (s, 1H), 8.08 (br. s., 1H), 7.97 (d, $J = 8.5$ Hz, 1H), 7.88 (d, $J = 7.8$ Hz, 1H), 7.48 - 7.58 (m, 2H), 7.46 (d, $J = 4.5$ Hz, 1H), 7.39 (d, $J = 7.8$ Hz, 1H), 6.25 (s, 1H), 3.18 (s, 1H), 2.80 (s, 3H), 2.45 (d, $J = 4.5$ Hz, 3H)

77	N-methyl-3-({6-[(3-nitrophenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide trifluoroacetate	2.17 <sup>a</sup>	401.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.87 (br. s., 1H), 9.74 (br. s., 1H), 8.71 (br. s., 1H), 8.45 (br. s., 1H), 8.08 (br. s., 1H), 7.99 (d, $J = 7.53$ Hz, 1H), 7.93 (d, $J = 7.53$ Hz, 1H), 7.81 (d, $J = 7.78$ Hz, 1H), 7.49 - 7.63 (m, 2H), 7.41 - 7.49 (m, 1H), 7.36 (d, $J = 7.28$ Hz, 1H), 6.25 (br. s., 1H), 2.44 (d, $J = 2.51$ Hz, 3H)
78	N-methyl-3-[(6-{[4-(4-morpholinylcarbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	1.85ª	469.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.61 (br. s., 1H), 9.52 (br. s., 1H), 8.38 (s, 1H), 8.11 (s, 1H), 7.92 (d, <i>J</i> = 8.28 Hz, 1H), 7.69 (s, 1H), 7.67 (s, 1H), 7.52 (t, <i>J</i> = 8.03 Hz, 1H), 7.31 - 7.41 (m, 4H), 6.25 (s, 1H), 3.61 (m, 4H), 3.52 (m, 4H), 2.45 (s, 3H)
79	N-methyl-4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide trifluoroacetate	1.76ª	413.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.76 (br. s., 1H), 9.69 (br. s., 1H), 8.43 (s, 1H), 8.30 (d, $J$ = 3.76 Hz, 1H), 8.08 (br. s., 1H), 7.90 (d, $J$ = 7.53 Hz, 1H), 7.82 (br. s., 1H), 7.80 (br. s., 1H), 7.67 (br. s., 1H), 7.65 (br. s., 1H), 7.55 (t, $J$ = 7.91 Hz, 1H), 7.46 (d, $J$ = 4.52 Hz, 1H), 7.38 (d, $J$ = 7.53 Hz, 1H), 6.26 (s, 1H), 2.78 (d, $J$ = 3.76 Hz, 3H), 2.45 (d, $J$ = 4.52 Hz, 3H)
80	3-{[6-(2,3-dihydro-1,4-benzodioxin-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.96ª	414.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.96 (br. s., 1H), 9.58 (br. s., 1H), 8.37 (s, 1H), 8.03 (s, 1H), 7.82 (d, $J$ = 7.78 Hz, 1H), 7.55 (t, $J$ = 7.91 Hz, 1H), 7.49 (d, $J$ = 5.02 Hz, 1H), 7.41 (d, $J$ = 7.78 Hz, 1H), 7.05 (s, 1H), 6.84 - 6.91 (m, 2H), 6.12 (s, 1H), 4.25 (br. s., 4H), 2.44 (d, $J$ = 4.77 Hz, 3H)
81	N-methyl-3-[(6-{[4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide hydrochloride	1.97ª	386.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.28 (br. s., 1H), 9.96 (br. s., 1H), 8.42 (s, 1H), 7.99 (s, 1H), 7.77 (d, $J$ = 8.03 Hz, 1H), 7.51 - 7.62 (m, 2H), 7.47 (d, $J$ = 7.78 Hz, 1H), 7.35 (d, $J$ = 8.78 Hz, 2H), 7.01 (d, $J$ = 8.78 Hz, 2H), 6.12 (s, 1H), 2.43 (d, $J$ = 4.77 Hz, 3H)

82	N-methyl-3-[(6-{[4-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide hydrochloride	1.87ª	441.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.45 (s, 1H), 8.96 (s, 1H), 8.26 (s, 1H), 8.11 (t, $J$ = 1.63 Hz, 1H), 7.85 - 7.91 (m, 1H), 7.49 (t, $J$ = 7.91 Hz, 1H), 7.42 (q, $J$ = 5.02 Hz, 1H), 7.35 (s, 1H), 7.33 (s, 1H), 7.30 (d, $J$ = 8.03 Hz, 1H), 6.95 (s, 1H), 6.93 (s, 1H), 6.06 (s, 1H), 3.72 - 3.78 (m, 4H), 3.03 - 3.09 (m, 4H), 2.44 (d, $J$ = 5.02 Hz, 3H)
83	3-[(6-{[4-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.25ª	412.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.78 (br. s., 1H), 9.46 (br. s., 1H), 8.36 (s, 1H), 8.06 (s, 1H), 7.85 (d, $J$ = 7.78 Hz, 1H), 7.54 (t, $J$ = 7.91 Hz, 1H), 7.46 (q, $J$ = 4.68 Hz, 1H), 7.35 - 7.43 (m, 5H), 6.17 (s, 1H), 2.44 (d, $J$ = 4.77 Hz, 3H), 1.29 (s, 9H)
84	N-methyl-3-[(6-{[3-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	1.96ª	441.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.52 (s, 1H), 9.11 (s, 1H), 8.31 (s, 1H), 8.06 - 8.10 (m, 1H), 7.89 - 7.95 (m, 1H), 7.50 (t, $J$ = 8.03 Hz, 1H), 7.43 (q, $J$ = 5.02 Hz, 1H), 7.32 (d, $J$ = 7.78 Hz, 1H), 7.12 - 7.20 (m, 1H), 7.06 - 7.08 (m, 1H), 7.03 (d, $J$ = 7.78 Hz, 1H), 6.63 (dd, $J$ = 2.01, 8.28 Hz, 1H), 6.20 (s, 1H), 3.72 - 3.79 (m, 4H), 3.06 - 3.12 (m, 4H), 2.44 (d, $J$ = 5.02 Hz, 3H)
85	3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidehydrochloride	2.24ª	449.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.04 (br. s., 1H), 9.87 (br. s., 1H), 8.46 (s, 1H), 8.03 (br. s., 1H), 7.87 (d, J = 7.53 Hz, 1H), 7.74 (br. s., 1H), 7.47 - 7.61 (m, 2H), 7.43 (d, $J = 8.03$ Hz, 1H), 7.31 (s, 1H), 7.10 (s, 1H), 6.28 (s, 1H), 2.45 (d, $J = 4.52$ Hz, 3H), 2.31 (s, 3H)

86	3-[(6-{[4- (dimethylamino)phenyl]amino}- 4-pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide	1.66ª	399.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.42 (s, 1H), 8.83 (s, 1H), 8.23 (s, 1H), 8.11 (s, 1H), 7.83 - 7.89 (m, 1H), 7.48 (t, $J = 8.03$ Hz, 1H), 7.41 (q, $J = 4.94$ Hz, 1H), 7.29 (d, $J = 7.78$ Hz, 1H), 7.26 (s, 1H), 7.24 (s, 1H), 6.77 (s, 1H), 6.75 (s, 1H), 5.99 (s, 1H), 2.88 (s, 6H), 2.43 (d, $J = 5.02$ Hz, 3H)
87	3-[(6-{[3- (dimethylamino)phenyl]amino}- 4-pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.68ª	399.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.88 (br. s., 1H), 9.55 (br. s., 1H), 8.38 (s, 1H), 8.03 (s, 1H), 7.85 (d, $J$ = 8.03 Hz, 1H), 7.55 (t, $J$ = 7.91 Hz, 1H), 7.47 (q, $J$ = 4.77 Hz, 1H), 7.41 (d, $J$ = 7.78 Hz, 1H), 7.18 - 7.26 (m, 1H), 6.84 - 6.97 (m, 2H), 6.58 - 6.67 (m, 1H), 6.21 (s, 1H), 2.95 (s, 6H), 2.42 - 2.47 (m, 3H)
88	methyl 4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzoate	2.12ª	414.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.74 (s, 1H), 9.67 (s, 1H), 8.43 (s, 1H), 8.09 - 8.13 (m, 1H), 7.87 - 7.96 (m, 3H), 7.80 (d, $J = 8.78$ Hz, 2H), 7.53 (t, $J = 7.91$ Hz, 1H), 7.42 - 7.49 (m, 1H), 7.35 (d, $J = 7.78$ Hz, 1H), 6.30 (s, 1H), 3.83 (s, 3H), 2.45 (d, $J = 4.27$ Hz, 3H)
89	1-methylethyl 4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzoate trifluoroacetate	2.28ª	442.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.75 (s, 1H), 9.70 (s, 1H), 8.43 (s, 1H), 8.08 - 8.11 (m, 1H), 7.86 - 7.95 (m, 3H), 7.75 - 7.80 (m, 2H), 7.54 (t, $J$ = 7.91 Hz, 1H), 7.45 (d, $J$ = 5.02 Hz, 1H), 7.36 (d, $J$ = 8.03 Hz, 1H), 6.29 (s, 1H), 5.11 (quin, $J$ = 6.27 Hz, 1H), 2.45 (d, $J$ = 5.02 Hz, 3H), 1.32 (d, $J$ = 6.27 Hz, 6H)
90	3-({6-[(4-chloro-3-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidehydrochloride	2.21 <sup>a</sup>	404.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.46 (br. s., 1H), 10.31 (br. s., 1H), 8.48 (s, 1H), 7.99 (s, 1H), 7.79 (d, <i>J</i> = 8.06 Hz, 1H), 7.54 - 7.63 (m, 2H), 7.46 - 7.53 (m, 2H), 7.35 - 7.46 (m, 2H), 6.35 (s, 1H), 2.44 (d, <i>J</i> = 3.27 Hz, 3H), 2.34 (s, 3H)

91	3-({6-[(4-fluoro-3-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidehydrochloride	2.12ª	388.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.52 (br. s., 1H), 10.29 (br. s., 1H), 8.47 (s, 1H), 7.98 (s, 1H), 7.78 (d, $J$ = 8.03 Hz, 1H), 7.55 - 7.65 (m, 2H), 7.50 (d, $J$ = 7.78 Hz, 1H), 7.38 (dd, $J$ = 2.26, 6.78 Hz, 1H), 7.30 (dt, $J$ = 3.92, 7.47 Hz, 1H), 7.17 - 7.25 (m, 1H), 6.28 (s, 1H), 2.44 (d, $J$ = 4.27 Hz, 3H), 2.26 (s, 3H)
92	3-{[6-(1 <i>H</i> -indol-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide	2.05ª	395.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.01 (br. s., 1H), 9.45 (s, 1H), 9.09 (s, 1H), 8.30 (s, 1H), 8.10 - 8.14 (m, 1H), 7.88 (dd, $J$ = 1.38, 8.16 Hz, 1H), 7.72 (s, 1H), 7.45 - 7.52 (m, 2H), 7.38 - 7.45 (m, 1H), 7.30 (d, $J$ = 7.78 Hz, 1H), 7.27 (t, $J$ = 2.64 Hz, 1H), 7.00 (dd, $J$ = 1.76, 8.53 Hz, 1H), 6.38 (br. s., 1H), 6.14 (s, 1H), 2.41 - 2.47 (m, 3H)
93	N-methyl-3-{[6-({3- [(methylsulfonyl)amino]phenyl}a mino)-4- pyrimidinyl]amino}benzenesulfo namide	1.80ª	448.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.75 (s, 1H), 9.56 (s, 1H), 9.34 (s, 1H), 8.34 (s, 1H), 8.10 (t, <i>J</i> = 1.76 Hz, 1H), 7.88 - 7.94 (m, 1H), 7.51 (t, <i>J</i> = 8.03 Hz, 1H), 7.43 - 7.47 (m, 1H), 7.41 - 7.43 (m, 2H), 7.33 (d, <i>J</i> = 7.78 Hz, 1H), 7.25 (t, <i>J</i> = 7.91 Hz, 1H), 6.80 - 6.86 (m, 1H), 6.20 (s, 1H), 3.01 (s, 3H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
94	N-methyl-3-({6-[(3-methyl-1 <i>H</i> -indazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide	1.83ª	409.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 12.40 (s, 1H), 9.57 (s, 1H), 9.39 (s, 1H), 8.39 (s, 1H), 8.10 - 8.14 (m, 1H), 8.03 (s, 1H), 7.92 (dd, $J = 1.51$ , 8.03 Hz, 1H), 7.59 (d, $J = 8.53$ Hz, 1H), 7.52 (t, $J = 7.91$ Hz, 1H), 7.44 (q, $J = 4.94$ Hz, 1H), 7.33 (d, $J = 7.78$ Hz, 1H), 7.07 (dd, $J = 1.51$ , 8.78 Hz, 1H), 6.24 (s, 1H), 2.42 - 2.47 (m, 6H)

95	3-({6-[(4-{[2- (diethylamino)ethyl]oxy}phenyl)a mino]-4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide	1.62ª	471.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.00 (br. s., 1H), 10.71 (br. s., 2H), 8.49 (s, 1H), 7.91 (br. s., 1H), 7.70 (d, J = 7.28 Hz, 1H), 7.60 (t, $J = 7.78$ Hz, 1H), 7.53 (br. s., 1H), 7.34 (d, $J = 8.28$ Hz, 2H), 7.07 (d, $J = 8.28$ Hz, 2H), 6.33 (br. s., 1H), 4.40 (br. s., 2H), 3.48 (br. s., 2H), 3.08 - 3.29 (m, 4H), 2.39 (s, 3H), 1.24 (t, $J = 6.90$ Hz, 6H)
96	1-methylethyl [(3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}phenyl)oxy]ac etate trifluoroacetate	6.52 <sup>b</sup>	472.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.70 (br. s., 1H), 9.42 (br. s., 1H), 8.37 (s, 1H), 8.05 - 8.11 (m, 1H), 7.86 - 7.94 (m, 1H), 7.53 (t, $J$ = 7.91 Hz, 1H), 7.45 (q, $J$ = 4.77 Hz, 1H), 7.36 (d, $J$ = 7.78 Hz, 1H), 7.26 - 7.30 (m, 1H), 7.23 (t, $J$ = 8.03 Hz, 1H), 7.08 - 7.14 (m, 1H), 6.54 - 6.62 (m, 1H), 6.21 (s, 1H), 5.01 (quin, $J$ = 6.27 Hz, 1H), 4.72 (s, 2H), 2.44 (d, $J$ = 4.77 Hz, 3H), 1.23 (s, 3H), 1.22 (s, 3H)
97	3-{[6-(1,3-benzothiazol-6-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	5.20 <sup>b</sup>	413.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.73 (s, 1H), 9.76 (s, 1H), 9.27 (s, 1H), 8.50 (d, $J$ = 2.01 Hz, 1H), 8.43 (s, 1H), 8.07 - 8.10 (m, 1H), 8.04 (d, $J$ = 8.78 Hz, 1H), 7.89 (dd, $J$ = 1.63, 7.91 Hz, 1H), 7.59 (dd, $J$ = 2.01, 8.78 Hz, 1H), 7.54 (t, $J$ = 8.03 Hz, 1H), 7.43 - 7.49 (m, 1H), 7.38 (d, $J$ = 7.53 Hz, 1H), 6.24 (s, 1H), 2.44 (d, $J$ = 5.02 Hz, 3H)
98	3-{[6-(1 <i>H</i> -indol-5-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	5.45⁵	395.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.05 (br. s., 1 H), 9.38 (s, 1 H), 8.91 (s, 1 H), 8.25 (s, 1 H), 8.08 - 8.14 (m, 1 H), 7.86 (d, <i>J</i> =7.55 Hz, 1 H), 7.60 (s, 1 H), 7.46 (t, <i>J</i> =7.93 Hz, 1 H), 7.33 - 7.40 (m, 3 H), 7.28 (d, <i>J</i> =7.55 Hz, 1 H), 7.05 - 7.12 (m, 1 H), 6.40 (br. s., 1 H), 6.04 (s, 1 H), 2.42 (d, <i>J</i> =5.04 Hz, 3 H)

99	3-{[6-(1,3-benzothiazol-5-ylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	5.34 <sup>b</sup>	413 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.77 (s, 1 H), 9.71 (br. s., 1 H), 9.39 (s, 1 H), 8.43 (s, 2 H), 8.11 (d, <i>J</i> =8.56 Hz, 1 H), 8.08 (s, 1 H), 7.89 (m, 1 H), 7.58 (dd, <i>J</i> =8.56, 2.01 Hz, 1 H), 7.54 (t, <i>J</i> =8.06 Hz, 1 H), 7.46 (q, <i>J</i> =5.04 Hz, 1 H), 7.38 (d, <i>J</i> =7.81 Hz, 1 H), 6.26 (s, 1 H), 2.44 (d, <i>J</i> =4.78 Hz, 3 H)
100	3-({6-[(3-fluoro-4-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	1.05 <sup>d</sup>	388.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.72 (s, 1 H), 9.52 (s, 1 H), 8.33 (s, 1 H), 7.97 - 8.04 (m, 1 H), 7.79 (dd, <i>J</i> =8.05, 1.21 Hz, 1 H), 7.47 - 7.53 (m, 1 H), 7.39 - 7.46 (m, 2 H), 7.35 (d, <i>J</i> =8.16 Hz, 1 H), 7.17 (dd, <i>J</i> =8.38, 8.60 Hz, 1 H), 7.12 (dd, <i>J</i> =8.16, 1.98 Hz, 1 H), 6.14 (s, 1 H), 2.41 (d, <i>J</i> =4.85 Hz, 3 H), 2.15 (s, 3 H)
101	3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.01 <sup>d</sup>	374.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.77 (s, 1 H), 9.66 (s, 1 H), 8.40 (s, 1 H), 8.05 (s, 1 H), 7.87 (dd, <i>J</i> =8.16, 1.10 Hz, 1 H), 7.58 - 7.65 (m, 1 H), 7.52 (t, <i>J</i> =7.94 Hz, 1 H), 7.44 (q, <i>J</i> =5.07 Hz, 1 H), 7.36 (d, <i>J</i> =7.94 Hz, 1 H), 7.32 (m, 1 H), 7.23 - 7.28 (m, 1 H), 6.76 - 6.83 (m, 1 H), 6.21 (s, 1 H), 2.42 (d, <i>J</i> =4.63 Hz, 3 H)
102	3-[(6-{[3-fluoro-4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetamide	1.27 <sup>d</sup>	442.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.98 (s, 1 H), 9.75 (s, 1 H), 8.45 (s, 1 H), 8.10 (s, 1 H), 8.03 (d, <i>J</i> =14.56 Hz, 1 H), 7.92 (d, <i>J</i> =8.03 Hz, 1 H), 7.60 - 7.67 (m, 1 H), 7.44 - 7.54 (m, 3 H), 7.35 (d, <i>J</i> =7.78 Hz, 1 H), 6.29 (s, 1 H), 2.43 (d, <i>J</i> =4.77 Hz, 3 H)
103	N-methyl-3-[(6-{[4-(methyloxy)-3-(trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.07 <sup>d</sup>	454.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.55 (s, 1 H), 9.31 (s, 1 H), 8.30 (s, 1 H), 8.04 (t, <i>J</i> =1.8 Hz, 1 H), 7.86 (dd, <i>J</i> =7.9, 1.8 Hz, 1 H), 7.83 (d, <i>J</i> =2.7 Hz, 1 H), 7.75 (dd, <i>J</i> =9.0, 2.7 Hz, 1 H), 7.47 (t, <i>J</i> =8.1 Hz, 1 H), 7.40 (q, <i>J</i> =5.1 Hz, 1 H), 7.30 (d, <i>J</i> =7.7 Hz, 1 H), 7.21 (d, <i>J</i> =9.3 Hz, 1 H), 6.06 (s, 1 H), 3.82 (s, 3 H), 2.40 (d, <i>J</i> =5.1 Hz, 3 H)

104	3-({6-[(4-chloro-3- fluorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.14 <sup>d</sup>	408.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.62 (d, <i>J</i> =7.28 Hz, 2 H), 8.39 (s, 1 H), 8.08 (t, <i>J</i> =1.76 Hz, 1 H), 7.89 - 7.96 (m, 2 H), 7.40 - 7.52 (m, 3 H), 7.29 - 7.35 (m, 2 H), 6.19 (s, 1 H), 2.42 (d, <i>J</i> =5.07 Hz, 3 H)
105	3-[(6-{[3-fluoro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	0.97 <sup>d</sup>	404.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.84 (s, 1 H), 9.56 (br. s., 1 H), 8.33 (s, 1 H), 8.00 (s, 1 H), 7.73 - 7.80 (m, 1 H), 7.42 - 7.54 (m, 3 H), 7.38 (d, <i>J</i> =7.50 Hz, 1 H), 7.10 - 7.17 (m, 2 H), 6.07 (s, 1 H), 3.79 (s, 3 H), 2.40 (d, <i>J</i> =4.41 Hz, 3 H)
106	N-methyl-3-[(6-{[4-methyl-3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.15 <sup>d</sup>	438.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.68 (s, 1 H), 9.57 (s, 1 H), 8.37 (s, 1 H), 8.05 (s, 1 H), 7.93 (s, 1 H), 7.88 (d, <i>J</i> =7.06 Hz, 1 H), 7.73 (d, <i>J</i> =7.06 Hz, 1 H), 7.51 (t, <i>J</i> =7.94 Hz, 1 H), 7.43 (q, <i>J</i> =4.85 Hz, 1 H), 7.34 (d, <i>J</i> =8.16 Hz, 2 H), 6.16 (s, 1 H), 2.42 (d, <i>J</i> =4.85 Hz, 3 H), 2.36 (br. s., 3 H)
107	3-[(6-{[4-chloro-3- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.24 <sup>d</sup>	458.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.73 (s, 1 H), 9.66 (s, 1 H), 8.40 (s, 1 H), 8.20 (d, <i>J</i> =2.65 Hz, 1 H), 8.07 (t, <i>J</i> =1.76 Hz, 1 H), 7.89 - 7.96 (m, 2 H), 7.60 (d, <i>J</i> =8.82 Hz, 1 H), 7.50 (t, <i>J</i> =7.94 Hz, 1 H), 7.43 (q, <i>J</i> =4.85 Hz, 1 H), 7.33 (d, <i>J</i> =8.38 Hz, 1 H), 6.19 (s, 1 H), 2.42 (d, <i>J</i> =5.07 Hz, 3 H)
108	N-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	2.18 <sup>a</sup>	438.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.69 (s, 1 H), 9.46 (s, 1 H), 8.37 (s, 1 H), 8.08 (s, 1 H), 7.85 - 7.93 (m, 1 H), 7.50 - 7.57 (m, 3 H), 7.45 (q, <i>J</i> =4.94 Hz, 1 H), 7.37 (d, <i>J</i> =8.03 Hz, 1 H), 7.32 (d, <i>J</i> =8.28 Hz, 2 H), 6.21 (s, 1 H), 3.57 - 3.64 (q, <i>J</i> =11.5 Hz, 2 H), 2.45 (d, <i>J</i> =5.02 Hz, 3 H)

109	N-methyl-4-(methylthio)-3-({6- [(2-oxo-1,2,3,4-tetrahydro-7- quinolinyl)amino]-4- pyrimidinyl}amino)benzenesulfo namide	1.83ª	471.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.39 - 2.45 (m, 5 H) 2.49 (s, 3 H) 2.77 - 2.82 (m, 2 H) 4.94 - 4.97 (m, 0 H) 5.84 - 5.86 (m, 1 H) 7.03 - 7.13 (m, 3 H) 7.43 - 7.51 (m, 2 H) 7.58 - 7.62 (m, 1 H) 7.67 - 7.68 (m, 1 H) 8.14 - 8.16 (m, 1 H) 8.69 - 8.72 (m, 1 H) 9.09 - 9.11 (m, 1 H) 10.02 - 10.12 (m, 1 H)
110	4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzoic acid trifluoroacetate	1.93ª	446.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 5.92 (s, 1 H) 7.47 (q, <i>J</i> =5.02 Hz, 1 H) 7.52 (d, <i>J</i> =8.53 Hz, 1 H) 7.62 - 7.69 (m, 2 H) 7.71 (d, <i>J</i> =8.78 Hz, 2 H) 7.86 (d, <i>J</i> =8.78 Hz, 2 H) 8.28 (s, 1 H) 8.99 (br. s., 1 H) 9.63 (s, 1 H)
111	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(diethylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.55ª	461.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 0.97 (t, <i>J</i> =7.03 Hz, 6 H) 2.43 (d, <i>J</i> =5.02 Hz, 3 H) 3.11 (q, <i>J</i> =7.03 Hz, 4 H) 6.04 (s, 1 H) 7.29 (d, <i>J</i> =8.78 Hz, 1 H) 7.33 - 7.37 (m, 1 H) 7.39 (d, <i>J</i> =8.78 Hz, 2 H) 7.50 - 7.58 (m, 3 H) 7.92 (d, <i>J</i> =1.51 Hz, 1 H) 8.37 (s, 1 H) 9.07 - 9.14 (m, 1 H) 9.77 (br s., 1 H)
112	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(2,5-dimethyl-1-pyrrolidinyl)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.50ª	487.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.08 (d, <i>J</i> =6.02 Hz, 6 H) 1.61 - 1.71 (m, 2 H) 1.95 - 2.04 (m, 2 H) 2.41 (d, <i>J</i> =4.02 Hz, 3 H) 3.64 - 3.75 (m, 2 H) 6.04 - 6.10 (m, 1 H) 7.33 - 7.39 (m, 1 H) 7.40 - 7.45 (m, 2 H) 7.55 (d, <i>J</i> =8.53 Hz, 3 H) 7.78 - 7.83 (m, 1 H) 8.46 (s, 1 H) 9.62 (br. s., 1 H) 10.29 (br. s., 1 H)
113	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(2-methyl-1-pyrrolidinyl)benzenesulfonamide trifluoroacetate	2.45ª	473.1 (M+H) <sup>*</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.03 (d, <i>J</i> =5.77 Hz, 3 H) 1.42 - 1.53 (m, 1 H) 1.61 - 1.74 (m, 1 H) 1.82 - 1.92 (m, 1 H) 2.05 - 2.15 (m, 1 H) 2.40 (d, <i>J</i> =4.77 Hz, 4 H) 3.17 (s, 1 H) 3.48 (br. s., 1 H) 3.85 - 3.95 (m, 1 H) 5.67 - 5.74 (m, 1 H) 7.00 - 7.05 (m, 2 H) 7.20 - 7.26 (m, 1 H) 7.38 (d, <i>J</i> =8.78 Hz, 2 H) 7.49 - 7.57 (m, 3 H) 8.35 (s, 1 H) 9.54 (br. s., 1 H) 9.94 (br. s., 1 H)

114	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> ,4-dimethylbenzenesulfonamide trifluoroacetate	2.22ª	404.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.35 (s, 3 H) 2.49 (d, <i>J</i> =5.02 Hz, 3 H) 6.00 (s, 1 H) 7.41 (d, <i>J</i> =8.78 Hz, 2 H) 7.48 (q, <i>J</i> =5.10 Hz, 1 H) 7.57 (s, 2 H) 7.65 (d, <i>J</i> =9.04 Hz, 2 H) 7.89 (s, 1 H) 8.33 (s, 1 H) 9.04 (br. s., 1 H) 9.53 (br. s., 1 H)
115	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-4-(isobutylthio)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.07°	477.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 0.97 (d, <i>J</i> =6.62 Hz, 6 H) 1.79 (m, <i>J</i> =12.57, 6.28, 6.28 Hz, 1 H) 2.41 (d, <i>J</i> =5.07 Hz, 3 H) 2.86 (d, <i>J</i> =6.62 Hz, 2 H) 5.89 (s, 1 H) 7.29 (d, <i>J</i> =9.04 Hz, 2 H) 7.42 - 7.48 (m, 1 H) 7.54 (s, 2 H) 7.57 - 7.62 (m, 2 H) 7.71 (s, 1 H) 8.18 (s, 1 H) 8.76 (s, 1 H) 9.32 (s, 1 H)
116	4-(isobutylthio)- <i>N</i> -methyl-3-(6- (4- (trifluoromethyl)phenylamino)pyr imidin-4- ylamino)benzenesulfonamide trifluoroacetate	1.14 <sup>c</sup>	511.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 0.95 (d, <i>J</i> =7.06 Hz, 6 H) 1.72 - 1.85 (m, 1 H) 2.40 (d, <i>J</i> =5.29 Hz, 3 H) 2.85 (d, <i>J</i> =7.06 Hz, 2 H) 5.93 (s, 1 H) 7.44 - 7.47 (m, 1 H) 7.54 (s, 2 H) 7.58 (d, <i>J</i> =8.82 Hz, 2 H) 7.68 (s, 1 H) 7.79 (d, <i>J</i> =8.38 Hz, 2 H) 8.23 (s, 1 H) 8.91 (s, 1 H) 9.62 (s, 1 H)
117	4-(isobutylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.09 <sup>c</sup>	486.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 0.95 (d, <i>J</i> =6.62 Hz, 6 H) 1.15 (d, <i>J</i> =7.06 Hz, 6 H) 1.79 (m, <i>J</i> =6.62 Hz, 1 H) 2.38 (d, <i>J</i> =4.85 Hz, 3 H) 2.76 - 2.83 (m, 1 H) 2.85 (d, <i>J</i> =6.62 Hz, 2 H) 5.89 (s, 1 H) 7.14 (d, 2 H) 7.35 (d, <i>J</i> =8.38 Hz, 2 H) 7.45 (q, <i>J</i> =5.15 Hz, 1 H) 7.52 (s, 2 H) 7.70 (s, 1 H) 8.15 (s, 1 H) 8.86 (br. s., 1 H) 9.25 (br. s., 1 H)
118	3-{[6-({4- [(difluoromethyl)oxy]phenyl}amin o)-4-pyrimidinyl]amino}- <i>N</i> - methyl-4-[(2,2,2- trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.36ª	520.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.56 (s, 3 H) 4.77 (q, <i>J</i> =8.37 Hz, 2 H) 6.06 (s, 1 H) 6.64 - 7.04 (m, 1 H) 7.23 (d, <i>J</i> =9.03 Hz, 2 H) 7.39 (d, <i>J</i> =8.78 Hz, 1 H) 7.43 - 7.48 (m, 2 H) 7.78 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 8.04 (d, <i>J</i> =2.26 Hz, 1 H) 8.29 (s, 1 H)

119	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-{[6-({4- [(trifluoromethyl)oxy]phenyl}ami no)-4- pyrimidinyl]amino}benzenesulfo namide trifluoroacetate	2.44ª	538.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (d, <i>J</i> =5.02 Hz, 3 H) 4.91 (q, <i>J</i> =8.78 Hz, 2 H) 6.16 (s, 1 H) 7.32 (d, <i>J</i> =8.78 Hz, 2 H) 7.41 (d, <i>J</i> =8.03 Hz, 2 H) 7.54 (d, <i>J</i> =8.03 Hz, 1 H) 7.67 (d, <i>J</i> =9.03 Hz, 2 H) 8.14 (br. s., 1 H) 8.29 (s, 1 H) 8.89 (br. s., 1 H) 9.50 (br. s., 1 H)
120	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide hydrochloride	2.24 <sup>a</sup>	490.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.44 (d, $J$ =5.02 Hz, 3 H) 4.93 (q, $J$ =8.95 Hz, 2 H) 6.16 (s, 1 H) 7.24 - 7.30 (m, 1 H) 7.36 - 7.49 (m, 3 H) 7.60 (dd, $J$ =8.53, 1.76 Hz, 1 H) 7.79 - 7.87 (m, 1 H) 8.05 (br. s., 1 H) 8.34 (s, 1 H) 9.26 (none, 1 H) 9.76 - 9.87 (m, 1 H)
121	3-({6-[(4-cyanophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.27ª	479.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.91 (q, <i>J</i> =8.78 Hz, 2 H) 6.21 (s, 1 H) 7.37 - 7.45 (m, 2 H) 7.54 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.72 (d, <i>J</i> =8.78 Hz, 2 H) 7.84 (d, <i>J</i> =8.78 Hz, 2 H) 8.14 (d, <i>J</i> =2.26 Hz, 1 H) 8.33 (s, 1 H) 8.89 (s, 1 H) 9.73 (s, 1 H)
122	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-4-(ethylthio)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.12°	450.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.23 (t, <i>J</i> =7.28 Hz, 3 H) 2.41 (d, <i>J</i> =5.07 Hz, 3 H) 3.00 (q, <i>J</i> =7.28 Hz, 2 H) 5.87 (s, 1 H) 7.30 (d, <i>J</i> =8.82 Hz, 2 H) 7.47 (q, <i>J</i> =5.07 Hz, 1 H) 7.54 - 7.56 (m, 2 H) 7.59 (d, <i>J</i> =8.82 Hz, 2 H) 7.70 (d, <i>J</i> =1.32 Hz, 1 H) 8.19 (s, 1 H) 8.84 (s, 1 H) 9.37 (s, 1 H)
123	4-(ethylthio)- <i>N</i> -methyl-3-(6-(4- (trifluoromethyl)phenylamino)pyr imidin-4- ylamino)benzenesulfonamide trifluoroacetate	1.21°	484.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.24 (t, <i>J</i> =7.39 Hz, 3 H) 2.41 (d, <i>J</i> =5.07 Hz, 3 H) 3.01 (q, <i>J</i> =7.50 Hz, 2 H) 5.96 (s, 1 H) 7.49 (q, <i>J</i> =5.29 Hz, 1 H) 7.54 - 7.62 (m, 4 H) 7.70 (d, <i>J</i> =1.54 Hz, 1 H) 7.81 (d, <i>J</i> =8.60 Hz, 2 H) 8.26 (s, 1 H) 9.01 (s, 1 H) 9.75 (s, 1 H)

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124	4-(ethylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.15°	458.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.16 (d, <i>J</i> =6.84 Hz, 6 H) 1.23 (t, <i>J</i> =7.17 Hz, 3 H) 2.40 (d, <i>J</i> =5.07 Hz, 3 H) 2.76 - 2.86 (m, 1 H) 2.99 (q, <i>J</i> =7.28 Hz, 2 H) 5.90 (s, 1 H) 7.13 (d, <i>J</i> =8.38 Hz, 2 H) 7.38 (d, <i>J</i> =8.60 Hz, 2 H) 7.43 - 7.49 (m, 1 H) 7.53 (s, 2 H) 7.73 (s, 1 H) 8.13 (s, 1 H) 8.73 (br. s., 1 H) 9.13 (br. s., 1 H)
125	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)- <i>N</i> -methyl-4-(2,2,2- trifluoroethylthio)benzenesulfona mide trifluoroacetate	1.03°	503.8 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.41 (d, $J$ =4.85 Hz, 3 H) 4.09 (q, $J$ =10.14 Hz, 2 H) 5.91 (s, 1 H) 7.31 (d, $J$ =9.26 Hz, 2 H) 7.51 - 7.61 (m, 4 H) 7.72 (d, $J$ =2.21 Hz, 1 H) 7.80 (d, $J$ =8.38 Hz, 1 H) 8.21 (s, 1 H) 9.10 (s, 1 H) 9.44 (s, 1 H)
126	N-methyl-4-(2,2,2- trifluoroethylthio)-3-(6-(4- (trifluoromethyl)phenylamino)pyr imidin-4- ylamino)benzenesulfonamide trifluoroacetate	1.11 <sup>c</sup>	538.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =5.29 Hz, 3 H) 4.11 (q, <i>J</i> =10.44 Hz, 2 H) 5.99 (s, 1 H) 7.54 (q, <i>J</i> =4.85 Hz, 1 H) 7.57 - 7.64 (m, 3 H) 7.73 (d, <i>J</i> =1.76 Hz, 1 H) 7.77 - 7.84 (m, 3 H) 8.27 (s, 1 H) 9.24 (s, 1 H) 9.75 (s, 1 H)
127	3-(6-(4- isopropylphenylamino)pyrimidin- 4-ylamino)- <i>N</i> -methyl-4-(2,2,2- trifluoroethylthio)benzenesulfona mide trifluoroacetate	1.05°	512.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.16 (d, <i>J</i> =7.06 Hz, 6 H) 2.40 (d, <i>J</i> =5.29 Hz, 3 H) 2.84 (m, <i>J</i> =13.84, 6.90, 6.90, 6.90, 6.90 Hz, 1 H) 4.12 (q, <i>J</i> =10.14 Hz, 2 H) 5.91 (s, 1 H) 7.19 (d, 2 H) 7.34 (d, <i>J</i> =8.38 Hz, 2 H) 7.55 (q, <i>J</i> =5.15 Hz, 1 H) 7.60 (dd, <i>J</i> =8.38, 1.76 Hz, 1 H) 7.73 (d, <i>J</i> =2.21 Hz, 1 H) 7.82 (d, <i>J</i> =8.38 Hz, 1 H) 8.25 (s, 1 H) 9.47 (br. s., 1 H) 9.65 (br. s., 1 H)
128	4-fluoro- <i>N</i> -methyl-3-{[6-({4- [(trifluoromethyl)oxy]phenyl}ami no)-4- pyrimidinyl]amino}benzenesulfo namide trifluoroacetate	1.76ª	458.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.45 (d, <i>J</i> =5.02 Hz, 3 H) 6.32 (s, 1 H) 7.32 (d, <i>J</i> =8.53 Hz, 2 H) 7.45 - 7.54 (m, 3 H) 7.65 - 7.72 (m, 2 H) 8.33 (s, 1 H) 8.52 (dd, <i>J</i> =7.53, 1.76 Hz, 1 H) 9.33 (s, 1 H) 9.52 (s, 1 H)

129	3-{[6-({4- [(difluoromethyl)oxy]phenyl}amin o)-4-pyrimidinyl]amino}-4-fluoro- N-methylbenzenesulfonamide trifluoroacetate	2.13ª	440.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.51 (d, <i>J</i> =5.02 Hz, 3 H) 6.35 (s, 1 H) 7.18 - 7.23 (m, 1 H) 7.50 - 7.58 (m, 3 H) 7.65 (d, <i>J</i> =9.03 Hz, 2 H) 8.36 (s, 1 H) 8.60 (dd, <i>J</i> =7.53, 2.01 Hz, 1 H) 9.32 (s, 1 H) 9.41 (s, 1 H)
130	4-chloro- <i>N</i> -methyl-3-[(6-{[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.88 <sup>a</sup>	458.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.47 (d, $J$ =5.02 Hz, 3 H) 6.30 (s, 1 H) 7.53 (dd, $J$ =8.41, 2.13 Hz, 1 H) 7.59 (q, $J$ =4.77 Hz, 1 H) 7.66 (d, $J$ =8.78 Hz, 2 H) 7.77 (d, $J$ =8.28 Hz, 1 H) 7.83 (d, $J$ =8.53 Hz, 2 H) 8.20 (d, $J$ =2.26 Hz, 1 H) 8.36 (s, 1 H) 9.28 (s, 1 H) 9.80 (s, 1 H)
131	3-({6-[(4-cyanophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate	2.30ª	459.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 3.31 (s, 3H) 6.37 - 6.41 (m, 1 H) 7.70 (dd, <i>J</i> =8.28, 1.76 Hz, 1 H) 7.75 (d, <i>J</i> =9.03 Hz, 3 H) 7.80 (q, <i>J</i> =4.94 Hz, 1 H) 7.84 - 7.88 (m, 3 H) 8.13 (d, <i>J</i> =8.28 Hz, 1 H) 8.41 - 8.44 (m, 2 H) 9.05 (s, 1 H) 9.91 (s, 1 H)
132	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate	1.69ª	470.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 3.31 (s, 3 H) 6.29 (s, 1 H) 7.24 - 7.32 (m, 1 H) 7.39 (m, <i>J</i> =10.54 Hz, 1 H) 7.68 (dd, <i>J</i> =8.28, 1.76 Hz, 1 H) 7.80 (d, <i>J</i> =5.02 Hz, 1 H) 7.83 - 7.91 (m, 1 H) 8.12 (d, <i>J</i> =8.28 Hz, 1 H) 8.36 (s, 1 H) 8.42 (d, <i>J</i> =1.51 Hz, 1 H) 8.98 (s, 1 H) 9.62 (s, 1 H)
133	3-(6-(1 <i>H</i> -indazol-5- ylamino)pyrimidin-4-ylamino)- <i>N</i> - methyl-4- (methylsulfonyl)benzenesulfona mide	0.74°	474.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =4.85 Hz, 3 H) 3.26 (s, 3 H) 6.19 (s, 1 H) 7.32 (dd, <i>J</i> =8.93, 1.87 Hz, 1 H) 7.54 (d, <i>J</i> =8.82 Hz, 1 H) 7.71 (dd, <i>J</i> =8.49, 1.43 Hz, 1 H) 7.77 (q, 1 H) 7.86 (s, 1 H) 8.05 (s, 1 H) 8.10 (d, <i>J</i> =8.38 Hz, 1 H) 8.25 (s, 1 H) 8.32 (s, 1 H) 9.23 (br. s., 1 H) 9.76 (br. s., 1 H)

134	3-(6-(4- (cyanomethyl)phenylamino)pyri midin-4-ylamino)- <i>N</i> -methyl-4- (methylsulfonyl)benzenesulfona mide	0.87°	473.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 3.29 (s, 3 H) 3.96 (s, 2 H) 6.31 (s, 1 H) 7.28 (d, 2 H) 7.57 (d, <i>J</i> =8.60 Hz, 2 H) 7.65 (dd, <i>J</i> =8.38, 1.54 Hz, 1 H) 7.79 (q, <i>J</i> =4.78 Hz, 1 H) 8.09 (d, <i>J</i> =8.38 Hz, 1 H) 8.32 (s, 1 H) 8.41 (d, <i>J</i> =1.54 Hz, 1 H) 8.94 (br. s., 1 H) 9.54 (s, 1 H)
135	4-( <i>tert</i> -butylsulfonyl)-3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.16°	509.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.22 (s, 9 H) 6.32 (s, 1 H) 7.33 (d, 2 H) 7.54 (dd, <i>J</i> =8.49, 1.65 Hz, 1 H) 7.62 (d, <i>J</i> =8.82 Hz, 2 H) 7.79 (q, <i>J</i> =4.78 Hz, 1 H) 7.96 (d, <i>J</i> =8.38 Hz, 1 H) 8.35 (s, 1 H) 8.63 (d, <i>J</i> =1.54 Hz, 1 H) 9.17 (s, 1 H) 9.59 (s, 1 H)
136	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1,1-dimethylethyl)oxy]benzenesulfo namide	2.43ª	515.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.41 (s, 6 H) 2.45 (s, 3 H) 6.10 (s, 1 H) 7.32 (s, 2 H) 7.39 (d, <i>J</i> =8.53 Hz, 1 H) 7.49 (dd, <i>J</i> =8.53, 2.26 Hz, 2 H) 7.65 (d, <i>J</i> =9.03 Hz, 2 H) 8.16 - 8.20 (m, 1 H) 8.26 - 8.30 (m, 1 H) 8.67 (s, 1 H) 9.39 (s, 1 H)
137	3-({6-[(3-bromophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide	1.59°	436.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.67 (br. s., 1H), 9.54 (br. s., 1H), 8.39 (s, 1H), 8.11 (br. s., 1H), 8.03 (br. s., 1H), 7.93 (d, $J = 7.53$ Hz, 1H), 7.41 - 7.58 (m, 3H), 7.34 (d, $J = 7.53$ Hz, 1H), 7.25 (t, $J = 7.91$ Hz, 1H), 7.13 (d, $J = 7.28$ Hz, 1H), 6.25 (s, 1H), 2.45 (d, $J = 4.52$ Hz, 3H)
138	3-({6-[(3-bromo-4- chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide	1.67°	469.8 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ 9.65 (s, 1H), 9.57 (s, 1H), 8.42 (s, 1H), 8.23 (d, $J = 2.26$ Hz, 1H), 8.09 (s, 1H), 7.93 (d, $J = 8.03$ Hz, 1H), 7.59 (dd, $J = 2.26$ , 8.78 Hz, 1H), 7.50 - 7.56 (m, 2H), 7.45 (q, $J = 4.85$ Hz, 1H), 7.35 (d, $J = 7.78$ Hz, 1H), 6.20 (s, 1H), 2.45 (d, $J = 4.77$ Hz, 3H)

139	3-[(6-{[3,4-bis(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methyl-4-(methylthio)benzenesulfonamide	0.83°	462.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.50 (s, 3 H) 2.53 (s, 3 H) 3.80 (s, 3 H) 3.83 (s, 3 H) 5.70 (s, 1 H) 6.87 (dd, <i>J</i> =8.38, 2.43 Hz, 1 H) 6.92 (d, <i>J</i> =2.43 Hz, 1 H) 6.99 (d, <i>J</i> =8.60 Hz, 1 H) 7.55 (d, <i>J</i> =8.60 Hz, 1 H) 7.72 (d, <i>J</i> =1.98 Hz, 1 H) 7.80 (dd, <i>J</i> =8.38, 1.98 Hz, 1 H) 8.22 (s, 1 H)
140	N-methyl-4-methylsulfanyl-3-[6- (3,4,5-trimethoxy-phenylamino)- pyrimidin-4-ylamino]- benzenesulfonamide trifluoroacetate	0.86°	492.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.51 (s, 3 H) 2.53 (s, 3 H) 3.74 (s, 3 H) 3.80 (s, 6 H) 5.77 (s, 1 H) 6.65 (s, 2 H) 7.56 (d, $J$ =8.38 Hz, 1 H) 7.73 (d, $J$ =1.98 Hz, 1 H) 7.82 (dd, $J$ =8.38, 1.98 Hz, 1 H) 8.25 (d, 1 H)
141	3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.90°	462.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.38 (d, <i>J</i> =5.29 Hz, 3 H) 3.68 (s, 9 H) 5.83 - 5.89 (m, 1 H) 6.18 - 6.24 (m, 1 H) 6.66 (m, <i>J</i> =1.76 Hz, 2 H) 7.46 (m, <i>J</i> =14.55 Hz, 1 H) 7.50 (d, <i>J</i> =8.38 Hz, 1 H) 7.64 (m, <i>J</i> =2.65 Hz, 2 H) 8.26 (s, 1 H) 9.44 (br. s., 1 H) 9.67 (br. s., 1 H)
142	3-[6-(4-cyano-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.92°	426.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (s, 3H and d, 3H, obscured by solvent) 5.90 (br. s., 1 H) 7.40 - 7.54 (m, 2 H) 7.61 - 7.80 (m, 6 H) 8.30 (s, 1 H) 9.25 (br. s., 1 H) 9.92 (br. s., 1 H)
143	3-[6-(benzo[1,3]dioxol-5-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.65°	446.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.38 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.74 (s, 1 H) 5.99 (s, 2 H) 6.78 (dd, <i>J</i> =8.60, 1.98 Hz, 1 H) 6.88 (d, <i>J</i> =8.38 Hz, 1 H) 7.08 (s, 1 H) 7.45 - 7.53 (m, 2 H) 7.60 - 7.67 (m, 2 H) 8.25 (s, 1 H) 9.57 (br. s., 1 H) 9.75 (br. s., 1 H)
144	3-[6-(benzothiazol-6-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.84°	458.8 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.40 (d, <i>J</i> =5.07 Hz, 3 H) 5.89 (s, 1 H) 7.45 - 7.57 (m, 3 H) 7.62 - 7.70 (m, 2 H) 8.02 (d, <i>J</i> =8.82 Hz, 1 H) 8.33 (s, 1 H) 8.41 (d, <i>J</i> =1.98 Hz, 1 H) 9.27 (s, 1 H) 9.49 (br. s., 1 H) 10.00 (br. s., 1 H)

145	N-methyl-3-[6-(2-methyl-benzothiazol-5-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.89°	472.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.38 (d, <i>J</i> =5.29 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 2.75 (s, 3 H) 5.88 (s, 1 H) 7.39 - 7.53 (m, 3 H) 7.61 - 7.68 (m, 2 H) 7.94 (d, <i>J</i> =8.82 Hz, 1 H) 8.12 (s, 1 H) 8.27 - 8.31 (m, 1 H) 9.44 (br. s., 1 H) 9.89 (br. s., 1 H)
146	3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.81°	451.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.38 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.70 (s, 1 H) 6.92 (d, <i>J</i> =8.38 Hz, 1 H) 7.11 (dd, <i>J</i> =8.60, 2.43 Hz, 1 H) 7.42 - 7.54 (m, 3 H) 7.57 - 7.68 (m, 2 H) 8.25 (s, 1 H) 9.41 - 9.52 (m, 1 H) 9.64 (br. s., 1 H) 10.15 (br. s., 1 H)
147	3-[6-(3,4-difluoro-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.93°	437.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.39 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.79 (s, 1 H) 7.16 - 7.22 (m, 1 H) 7.35 (m, <i>J</i> =10.58 Hz, 1 H) 7.44 - 7.52 (m, 2 H) 7.62 - 7.66 (m, 2 H) 7.77 (ddd, <i>J</i> =13.12, 7.61, 2.65 Hz, 1 H) 8.28 (s, 1 H) 9.34 (br. s., 1 H) 9.75 (s, 1 H)
148	N-methyl-4-methylsulfanyl-3-[6-(4-morpholin-4-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	0.84°	486.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.38 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.02 - 3.11 (m, 4 H) 3.65 - 3.75 (m, 4 H) 5.71 (br. s., 1 H) 6.96 (d, <i>J</i> =9.26 Hz, 2 H) 7.21 (d, <i>J</i> =8.82 Hz, 2 H) 7.48 (m, <i>J</i> =5.29 Hz, 1 H) 7.52 (d, <i>J</i> =8.38 Hz, 1 H) 7.61 (d, <i>J</i> =1.76 Hz, 1 H) 7.67 (dd, 1 H) 8.28 (s, 1 H) 9.79 (br. s., 1 H) 9.92 (br. s., 1 H)
149	3-[6-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.85°	460.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.40 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 4.18 - 4.24 (m, 4 H) 5.76 (s, 1 H) 6.77 - 6.86 (m, 2 H) 7.00 (d, <i>J</i> =0.88 Hz, 1 H) 7.48 (q, <i>J</i> =5.00 Hz, 1 H) 7.52 (d, <i>J</i> =8.60 Hz, 1 H) 7.63 (d, <i>J</i> =1.98 Hz, 1 H) 7.66 (dd, <i>J</i> =8.16, 1.98 Hz, 1 H) 8.26 (s, 1 H) 9.56 (br. s., 1 H) 9.68 (br. s., 1 H)

150	N-methyl-4-methylsulfanyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	0.74°	485.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.60 (br. s., 2 H) 1.79 (br. s., 4 H) 2.40 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.38 (br. s., 4 H) 5.80 (s, 1 H) 7.37 - 7.45 (m, 2 H) 7.46 - 7.53 (m, 2 H) 7.53 - 7.59 (m, 2 H) 7.62 - 7.67 (m, 2 H) 8.27 (s, 1 H) 9.36 (br. s., 1 H) 9.77 (br. s., 1 H)
151	3-[6-(3-ethynyl-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.91°	426.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.39 (d, $J$ =5.29 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 4.15 (s, 1 H) 5.86 (s, 1 H) 7.05 (d, 1 H) 7.26 (t, $J$ =7.94 Hz, 1 H) 7.45 - 7.52 (m, 3 H) 7.59 - 7.64 (m, 2 H) 7.76 (s, 1 H) 8.24 (s, 1 H) 9.10 (br. s., 1 H) 9.58 (br. s., 1 H)
152	3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.86°	486.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.48 (d, <i>J</i> =4.77 Hz, 3 H) 2.55 (s, 3H, obscured by solvent) 5.82 (s, 1 H) 7.53 (q, <i>J</i> =4.85 Hz, 1 H) 7.57 - 7.63 (m, 3 H) 7.70 - 7.75 (m, 2 H) 8.36 (s, 1 H) 9.44 (br. s., 1 H) 9.68 (br. s., 1 H) 9.97 (br. s., 1 H)
153	N-methyl-4-methylsulfanyl-3-{6- [3-(2-methyl-thiazol-4-yl)- phenylamino]-pyrimidin-4- ylamino}-benzenesulfonamide trifluoroacetate	0.93°	498.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.41 (d, <i>J</i> =4.77 Hz, 3 H) 2.49 (s, 3H, obscured by solvent) 2.71 (s, 3 H) 5.90 (s, 1 H) 7.38 - 7.43 (m, 1 H) 7.45 - 7.57 (m, 3 H) 7.63 - 7.72 (m, 3 H) 7.89 (s, 1 H) 7.97 (s, 1 H) 8.35 (s, 1 H) 9.63 (br. s., 1 H) 9.99 (br. s., 1 H)
154	3-(6-(3-methoxy-5- (trifluoromethyl)phenylamino)pyr imidin-4-ylamino)- <i>N</i> -methyl-4- (methylthio) benzenesulfonamide trifluoroacetate	1.02°	499.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.40 (d, <i>J</i> =5.29 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.78 (s, 3 H) 5.84 (s, 1 H) 6.82 (s, 1 H) 7.44 - 7.53 (m, 3 H) 7.57 (s, 1 H) 7.62 - 7.66 (m, 2 H) 8.28 (s, 1 H) 9.17 (br. s., 1 H) 9.70 (br. s., 1 H)

155	3-[6-(1 <i>H</i> -indol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.83°	440.8 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.35 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.75 (br. s., 1 H) 6.42 (br. s., 1 H) 7.00 (dd, <i>J</i> =8.60, 1.98 Hz, 1 H) 7.36 - 7.42 (m, 2 H) 7.45 (q, <i>J</i> =4.85 Hz, 1 H) 7.48 - 7.53 (m, 2 H) 7.61 - 7.67 (m, 2 H) 8.25 (s, 1 H) 9.61 (br. s., 1 H) 9.87 (br. s., 1 H) 11.20 (br. s., 1 H)
156	N-methyl-4-methylsulfanyl-3-[6-(quinolin-6-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	0.74 <sup>c</sup>	453.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.41 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.96 (s, 1 H) 7.47 (q, 1 H) 7.52 (d, <i>J</i> =8.38 Hz, 1 H) 7.62 - 7.68 (m, 2 H) 7.63 (s, 1 H) 7.78 (dd, <i>J</i> =8.38, 4.85 Hz, 1 H) 8.01 (m, <i>J</i> =2.21 Hz, 1 H) 8.10 (d, <i>J</i> =9.26 Hz, 1 H) 8.35 (s, 1 H) 8.56 (d, <i>J</i> =1.76 Hz, 1 H) 8.74 (d, <i>J</i> =7.94 Hz, 1 H) 8.95 (dd, <i>J</i> =4.85, 1.32 Hz, 1 H) 9.19 (br. s., 1 H) 10.01 (s, 1 H)
157	3-[6-(3-chloro-4-cyano-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	1.03°	461.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.55 (s, 3 H) 2.56 (s, 3 H) 6.04 (s, 1 H) 7.56 - 7.61 (m, 2 H) 7.58 - 7.59 (m, 1 H) 7.80 - 7.84 (m, 2 H) 8.07 (d, <i>J</i> =1.98 Hz, 1 H) 8.40 (s, 1 H)
158	N-methyl-4-methylsulfanyl-3-[6-(4-[1,2,4]triazol-4-ylmethyl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	0.77°	482.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.39 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.34 (s, 2 H) 5.96 (s, 1 H) 7.24 (d, <i>J</i> =8.38 Hz, 2 H) 7.45 - 7.52 (m, 3 H) 7.55 (q, <i>J</i> =4.85 Hz, 1 H) 7.61 - 7.67 (m, 2 H) 7.95 (s, 1 H) 8.27 (s, 1 H) 8.65 (s, 1 H) 9.49 (br. s., 1 H) 9.98 (br. s., 1 H)
159	3-[6-(1 <i>H</i> -indazol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.73°	442.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.37 (d, <i>J</i> =5.29 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.90 (s, 1 H) 7.33 (dd, 1 H) 7.45 - 7.51 (m, 2 H) 7.55 (m, <i>J</i> =5.29 Hz, 1 H) 7.60 (d, <i>J</i> =8.38 Hz, 1 H) 7.65 (d, <i>J</i> =2.21 Hz, 1 H) 7.90 (s, 1 H) 7.99 (s, 1 H) 8.22 (s, 1 H) 9.15 (br. s., 1 H) 9.67 (br. s., 1 H)

160	3-[6-(1 <i>H</i> -indol-6-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.87°	441.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.39 (br. s., 3 H) 2.53 (s, 3 H) 5.76 (s, 1 H) 6.47 (dd, <i>J</i> =3.09, 0.88 Hz, 2 H) 6.92 (dd, <i>J</i> =8.38, 1.98 Hz, 1 H) 7.30 (d, <i>J</i> =3.31 Hz, 1 H) 7.36 (s, 1 H) 7.52 (d, <i>J</i> =8.38 Hz, 2 H) 7.59 (d, <i>J</i> =7.94 Hz, 1 H) 7.71 (d, <i>J</i> =1.98 Hz, 1 H) 7.76 (dd, <i>J</i> =8.38, 1.98 Hz, 1 H) 8.18 - 8.21 (m, 1 H)
161	N-methyl-4-(methylthio)-3-(6-(4-(piperazin-1-yl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide trifluoroacetate	0.88°	486.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.39 (d, <i>J</i> =5.07 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.22 (br. s., 4 H) 3.25 - 3.29 (m, 4 H) 5.73 (s, 1 H) 6.97 (d, <i>J</i> =9.04 Hz, 2 H) 7.30 (d, <i>J</i> =9.04 Hz, 2 H) 7.50 (d, <i>J</i> =9.04 Hz, 1 H) 7.61 - 7.66 (m, 2 H) 8.22 (s, 1 H) 8.77 (br. s., 2 H) 9.33 (br. s., 1 H) 9.56 (br. s., 1 H)
162	N-methyl-3-(6-(4-methyl-2-oxo-1,2-dihydroquinolin-7-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide trifluoroacetate	0.86°	483.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.35 (d, <i>J</i> =1.10 Hz, 3 H) 2.41 (d, <i>J</i> =4.85 Hz, 3 H) 2.52 (s, 3 H) 5.92 (s, 1 H) 6.20 (s, 1 H) 7.36 (dd, <i>J</i> =8.93, 2.09 Hz, 1 H) 7.47 (m, <i>J</i> =5.29 Hz, 1 H) 7.51 (d, <i>J</i> =8.16 Hz, 1 H) 7.59 (d, 1 H) 7.61 - 7.67 (m, 3 H) 8.28 (s, 1 H) 9.18 (br. s., 1 H) 9.77 (br. s., 1 H) 11.51 (br. s., 1 H)
163	3-(6-(1-acetylindolin-6-ylamino)pyrimidin-4-ylamino)-N-methyl-4-(methylthio)benzenesulfonamide trifluoroacetate	0.84°	484.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.13 (s, 3 H) 2.39 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.08 (t, <i>J</i> =8.38 Hz, 2 H) 4.08 (t, <i>J</i> =8.60 Hz, 2 H) 5.80 (s, 1 H) 7.18 (s, 2 H) 7.48 (q, <i>J</i> =4.85 Hz, 1 H) 7.52 (d, <i>J</i> =8.38 Hz, 1 H) 7.63 (d, 1 H) 7.67 (dd, <i>J</i> =8.38, 1.76 Hz, 1 H) 8.01 (s, 1 H) 8.30 (s, 1 H) 9.70 (br. s., 1 H) 9.96 (br. s., 1 H)

164	N-methyl-3-[6-(2-methyl-4-oxo-4H-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.91°	483.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.33 (s, 3 H) 2.40 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 5.91 (s, 1 H) 6.10 (s, 1 H) 7.34 (dd, <i>J</i> =8.82, 1.76 Hz, 1 H) 7.44 (q, <i>J</i> =4.85 Hz, 1 H) 7.50 (d, <i>J</i> =8.82 Hz, 1 H) 7.60 - 7.66 (m, 2 H) 7.83 (d, <i>J</i> =8.82 Hz, 1 H) 8.19 (d, <i>J</i> =1.32 Hz, 1 H) 8.33 (s, 1 H) 9.11 (s, 1 H) 9.86 (s, 1 H)
165	3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-methylsulfanyl-benzenesulfonamide trifluoroacetate	0.82°	441.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.39 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 3.95 (s, 2 H) 5.83 (s, 1 H) 7.27 (d, 2 H) 7.42 - 7.53 (m, 3 H) 7.61 - 7.67 (m, 2 H) 8.26 (s, 1 H) 9.36 (br. s., 1 H) 9.71 (br. s., 1 H)
166	N-methyl-4-methylsulfanyl-3-[6- (5-oxo-5,6,7,8-tetrahydro- naphthalen-2-ylamino)- pyrimidin-4-ylamino]- benzenesulfonamide trifluoroacetate	0.91°	470.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.94 - 2.00 (m, 2 H) 2.40 (d, <i>J</i> =4.85 Hz, 3 H) 2.47 (s, 3H, and m, 2H obscured by solvent) 2.81 - 2.88 (m, 2 H) 5.90 (s, 1 H) 7.40 - 7.52 (m, 3 H) 7.56 (s, 1 H) 7.60 - 7.65 (m, 2 H) 7.76 (d, <i>J</i> =8.38 Hz, 1 H) 8.28 (s, 1 H) 9.12 (br. s., 1 H) 9.71 (br. s., 1 H)
167	N-methyl-4-methylsulfanyl-3-[6-(3,4,5-trifluoro-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	0.99°	456.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 2.40 (d, $J$ =4.85 Hz, 3 H) 2.47 (s, 3H, and m, 2H obscured by solvent) 5.79 (s, 1 H) 7.44 (q, $J$ =4.41 Hz, 1 H) 7.47 - 7.55 (m, 3 H) 7.60 - 7.66 (m, 2 H) 8.28 (s, 1 H) 9.19 (br. s., 1 H) 9.70 (s, 1 H)
168	N-methyl-3-[6-(4-methyl-2-oxo- 2H-chromen-7-ylamino)- pyrimidin-4-ylamino]-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.92°	483.8 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.35 (s, 3 H) 2.41 (d, <i>J</i> =4.85 Hz, 3 H) 2.46 (s, 3H, and m, 2H obscured by solvent) 5.90 (s, 1 H) 6.16 (s, 1 H) 7.39 (dd, <i>J</i> =8.60, 1.98 Hz, 1 H) 7.44 (q, 1 H) 7.49 (d, <i>J</i> =8.38 Hz, 1 H) 7.60 - 7.66 (m, 3 H) 7.90 (d, <i>J</i> =1.76 Hz, 1 H) 8.29 (s, 1 H) 9.05 (s, 1 H) 9.76 (s, 1 H)

169	3-[6-(indan-5-ylamino)-pyrimidin- 4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.95°	441.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.98 (quin, <i>J</i> =7.39 Hz, 2 H) 2.38 (d, <i>J</i> =5.29 Hz, 3 H) 2.46 (s, 3H, obscured by solvent) 2.79 (q, <i>J</i> =7.94 Hz, 4 H) 5.77 (s, 1 H) 7.11 (s, 1 H) 7.15 (s, 1 H) 7.28 (s, 1 H) 7.44 (q, <i>J</i> =4.85 Hz, 1 H) 7.50 (d, <i>J</i> =8.82 Hz, 1 H) 7.61 - 7.66 (m, 2 H) 8.23 (s, 1 H) 9.38 (br. s., 1 H) 9.59 - 9.65 (m, 1 H)
170	3-[6-(1 <i>H</i> -indazol-6-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- methylsulfanyl- benzenesulfonamide trifluoroacetate	0.79°	442.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.38 (d, <i>J</i> =4.85 Hz, 3 H) 5.86 (s, 1 H) 7.03 (dd, <i>J</i> =8.60, 1.54 Hz, 1 H) 7.45 (q, <i>J</i> =4.85 Hz, 1 H) 7.51 (d, <i>J</i> =8.38 Hz, 1 H) 7.62 - 7.69 (m, 3 H) 7.88 (br. s., 1 H) 7.97 (s, 1 H) 8.31 (s, 1 H) 9.44 (br. s., 1 H) 9.86 (br. s., 1 H)
171	N-methyl-3-(6-(2-methyl-1,3-dioxoisoindolin-5-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide trifluoroacetate	0.92°	484.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =5.07 Hz, 3 H) 2.47 (s, 3 H, obscured by solvent) 2.98 (s, 3 H) 5.91 (s, 1 H) 7.45 - 7.49 (m, 1 H) 7.51 (d, <i>J</i> =9.26 Hz, 1 H) 7.62 - 7.66 (m, 2 H) 7.73 (d, <i>J</i> =8.60 Hz, 1 H) 7.81 (dd, <i>J</i> =8.38, 1.98 Hz, 1 H) 8.31 (d, <i>J</i> =1.54 Hz, 1 H) 8.34 (s, 1 H) 9.15 (s, 1 H) 10.00 (s, 1 H)
172	3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	0.89°	416.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.53 (s, 3 H) 3.79 (s, 6 H) 6.20 (d, <i>J</i> =0.88 Hz, 1 H) 6.42 (d, <i>J</i> =4.41 Hz, 1 H) 6.54 (d, <i>J</i> =2.20 Hz, 2 H) 7.56 - 7.61 (m, 1 H) 7.61 - 7.64 (m, 1 H) 7.67 - 7.71 (m, 1 H) 8.02 (d, <i>J</i> =3.53 Hz, 1 H) 8.32 (d, <i>J</i> =0.88 Hz, 1 H)
173	N-methyl-3-[6-(3,4,5-trimethoxy-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	0.84°	446.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.53 (s, 3 H) 3.76 (s, 3 H) 3.83 (s, 6 H) 6.12 (s, 1 H) 6.69 (s, 2 H) 7.56 - 7.61 (m, 1 H) 7.62 (t, <i>J</i> =1.54 Hz, 1 H) 7.64 (dd, <i>J</i> =3.09, 1.32 Hz, 0 H) 7.68 (m, <i>J</i> =2.09, 1.43 Hz, 1 H) 8.00 (t, <i>J</i> =1.76 Hz, 1 H) 8.32 (d, <i>J</i> =0.88 Hz, 1 H)

174	3-[6-(3-ethynyl-phenylamino)-pyrimidin-4-ylamino]-N-methylbenzenesulfonamidetrifluoroacetate	0.91°	379.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =4.85 Hz, 3 H) 4.18 (s, 1 H) 6.18 (d, <i>J</i> =1.10 Hz, 1 H) 7.08 - 7.14 (m, 1 H) 7.32 (t, <i>J</i> =7.94 Hz, 1 H) 7.35 - 7.38 (m, 1 H) 7.44 (q, <i>J</i> =4.92 Hz, 1 H) 7.48 - 7.55 (m, 2 H) 7.76 (t, <i>J</i> =1.76 Hz, 1 H) 7.86 (dt, <i>J</i> =7.06, 1.21 Hz, 1 H) 8.04 (t, <i>J</i> =1.87 Hz, 1 H) 8.39 (s, 1 H) 9.58 (s, 1 H) 9.78 (s, 1 H)
175	3-[6-(benzo[1,3]dioxol-5-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	0.82°	399.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.53 (s, 3 H) 6.02 (s, 2 H) 6.06 (s, 1 H) 6.81 (dd, $J$ =8.16, 2.21 Hz, 1 H) 6.88 - 6.92 (m, 2 H) 7.59 (m, $J$ =7.72 Hz, 1 H) 7.62 - 7.67 (m, 2 H) 7.99 (t, $J$ =1.76 Hz, 1 H) 8.30 (s, 1 H)
176	3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	0.79°	406.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.53 (s, 3 H) 6.02 (s, 1 H) 7.00 (d, $J$ =8.60 Hz, 1 H) 7.13 (dd, $J$ =8.60, 2.65 Hz, 1 H) 7.37 (d, $J$ =2.65 Hz, 1 H) 7.55 - 7.69 (m, 3 H) 7.99 (d, $J$ =1.54 Hz, 1 H) 8.31 (s, 1 H)
177	3-[6-(3,4-difluoro-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	0.92°	391.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.54 (s, 3 H) 6.14 (s, 1 H) 7.17 - 7.22 (m, 1 H) 7.29 - 7.38 (m, 1 H) 7.48 (ddd, $J$ =11.80, 7.06, 2.54 Hz, 1 H) 7.58 - 7.69 (m, 3 H) 7.99 (t, $J$ =1.76 Hz, 1 H) 8.37 (s, 1 H)
178	N-methyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	0.70°	439.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.60 (br. s., 2 H) 1.81 (br. s., 4 H) 2.41 (d, <i>J</i> =4.85 Hz, 3 H) 3.37 (br. s., 4 H) 6.17 (br. s., 1 H) 7.32 (d, <i>J</i> =7.94 Hz, 1 H) 7.40 - 7.51 (m, 3 H) 7.54 - 7.63 (m, 2 H) 7.86 (d, <i>J</i> =9.26 Hz, 1 H) 8.07 (s, 1 H) 8.33 (s, 1 H) 9.49 (br. s., 1 H) 9.67 (s, 1 H)
179	3-[6-(4-cyano-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	0.93°	381.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, 3H, obscured by solvent) 6.26 (s, 1 H) 7.33 (d, 1 H) 7.38 - 7.44 (m, 1 H) 7.46 - 7.53 (m, 1 H) 7.69 (d, <i>J</i> =8.82 Hz, 2 H) 7.82 (d, <i>J</i> =8.38 Hz, 2 H) 7.88 (d, <i>J</i> =9.26 Hz, 1 H) 8.07 (br. s., 1 H) 8.40 (s, 1 H) 9.71 (s, 1 H) 9.84 (s, 1 H)

180	N-methyl-3-[6-(2-methyl-4-oxo-4H-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	0.94°	437.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.33 (s, 3 H) 2.40 (d, <i>J</i> =4.85 Hz, 3 H) 6.09 (s, 1 H) 6.46 (s, 1 H) 7.31 (d, <i>J</i> =7.94 Hz, 1 H) 7.49 (m, <i>J</i> =4.41 Hz, 4 H) 7.83 (d, <i>J</i> =8.82 Hz, 1 H) 7.89 (d, <i>J</i> =8.38 Hz, 1 H) 8.14 (s, 1 H) 8.28 (d, <i>J</i> =1.32 Hz, 1 H) 8.45 (s, 1 H) 9.91 (s, 1 H) 10.27 (s, 1 H)
181	3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	0.85°	440.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (d, <i>J</i> =5.02 Hz, 3 H) 6.15 (s, 1 H) 7.32 (d, 1 H) 7.44 (q, <i>J</i> =5.02 Hz, 1 H) 7.49 (t, <i>J</i> =8.03 Hz, 1 H) 7.65 (s, 2 H) 7.89 (dd, <i>J</i> =8.16, 1.38 Hz, 1 H) 8.08 (s, 1 H) 8.34 (s, 1 H) 9.41 (s, 1 H) 9.65 (s, 1 H) 9.67 - 9.74 (m, 1 H)
182	N-methyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamidetrifluoroacetate	0.92°	453.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.27 (d, <i>J</i> =5.02 Hz, 3 H) 2.55 (s, 3 H) 6.12 (s, 1 H) 7.15 - 7.23 (m, 2 H) 7.27 - 7.36 (m, 2 H) 7.40 (d, <i>J</i> =7.78 Hz, 1 H) 7.49 (d, <i>J</i> =8.03 Hz, 1 H) 7.70 - 7.74 (m, 2 H) 7.86 (s, 1 H) 7.93 (s, 1 H) 8.20 (s, 1 H) 9.41 (s, 1 H) 9.61 (s, 1 H)
183	3-[6-(1 <i>H</i> -indazol-5-ylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	0.66°	396.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.34 (d, <i>J</i> =4.77 Hz, 3 H) 6.01 (s, 1 H) 7.26 (dd, 1 H) 7.32 (d, <i>J</i> =7.78 Hz, 1 H) 7.37 (q, <i>J</i> =4.94 Hz, 1 H) 7.43 - 7.52 (m, 2 H) 7.73 (d, <i>J</i> =7.78 Hz, 1 H) 7.80 (s, 1 H) 7.94 (s, 1 H) 7.99 (s, 1 H) 8.30 (s, 1 H) 9.57 (br. s., 1 H) 9.79 (br. s., 1 H)
184	N-methyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	0.92°	424.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.12 (dt, $J$ =12.46, 6.34 Hz, 2 H) 2.55 (s, 3 H) 2.63 (t, 2 H) 2.98 (t, $J$ =5.95 Hz, 2 H) 6.32 (s, 1 H) 7.41 (dd, $J$ =8.60, 2.21 Hz, 1 H) 7.48 (d, $J$ =2.20 Hz, 1 H) 7.56 - 7.64 (m, 2 H) 7.71 (dt, $J$ =7.11, 2.18 Hz, 1 H) 7.96 (d, $J$ =8.60 Hz, 1 H) 8.03 - 8.07 (m, 1 H) 8.41 (s, 1 H)

185	3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	0.93°	395.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 3.97 (s, 2 H) 6.27 (s, 1 H) 7.26 - 7.34 (m, 3 H) 7.45 - 7.53 (m, 2 H) 7.62 (d, <i>J</i> =8.53 Hz, 2 H) 7.90 (d, <i>J</i> =9.79 Hz, 1 H) 8.13 (s, 1 H) 8.34 (s, 1 H) 9.45 (s, 1 H) 9.66 (s, 1 H)
186	N-methyl-3-[6-(4-methyl-2-oxo-2H-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamidetrifluoroacetate	0.93°	437.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.37 (s, 3 H) 2.42 (d, <i>J</i> =4.85 Hz, 3 H) 6.17 (s, 1 H) 6.30 (s, 1 H) 7.33 (d, <i>J</i> =7.94 Hz, 1 H) 7.41 - 7.54 (m, 3 H) 7.66 (d, <i>J</i> =8.82 Hz, 1 H) 7.91 (dd, <i>J</i> =8.16, 1.54 Hz, 1 H) 7.96 (d, <i>J</i> =2.20 Hz, 1 H) 8.08 - 8.11 (m, 1 H) 8.44 (s, 1 H) 9.71 (s, 1 H) 9.85 (s, 1 H)
187	3-[6-(1-acetyl-2,3-dihydro-1 <i>H</i> -indol-6-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	0.82°	439.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.13 (s, 3 H) 2.40 (d, <i>J</i> =5.29 Hz, 3 H) 3.07 (t, <i>J</i> =8.60 Hz, 2 H) 4.08 (t, <i>J</i> =8.38 Hz, 2 H) 6.11 (s, 1 H) 7.16 (d, 1 H) 7.28 (d, <i>J</i> =7.94 Hz, 1 H) 7.34 (d, <i>J</i> =7.94 Hz, 1 H) 7.41 (q, <i>J</i> =4.85 Hz, 1 H) 7.49 (t, <i>J</i> =7.94 Hz, 1 H) 7.81 (d, <i>J</i> =8.38 Hz, 1 H) 8.00 (s, 1 H) 8.05 (s, 1 H) 8.32 (s, 1 H) 9.51 (br. s., 1 H) 9.76 (br. s., 1 H)
188	3-[6-(3-methoxy-5- trifluoromethyl-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	1.01°	454.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.41 (d, <i>J</i> =5.29 Hz, 3 H) 3.79 (s, 3 H) 6.19 (s, 1 H) 6.79 (s, 1 H) 7.29 - 7.34 (m, 1 H) 7.41 (d, 1 H) 7.49 (s, 1 H) 7.51 (s, 1 H) 7.61 (s, 1 H) 7.87 - 7.93 (m, 1 H) 8.04 (s, 1 H) 8.38 (s, 1 H) 9.62 (s, 1 H) 9.66 (s, 1 H)
189	N-methyl-3-[6-(4-methyl-2-oxo-1,2-dihydro-quinolin-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide trifluoroacetate	0.84°	437.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.34 (s, 3 H) 2.41 (d, <i>J</i> =5.29 Hz, 3 H) 6.19 (s, 1 H) 6.24 (s, 1 H) 7.32 (d, <i>J</i> =7.50 Hz, 1 H) 7.37 - 7.41 (m, 2 H) 7.49 (t, <i>J</i> =7.94 Hz, 2 H) 7.59 (d, <i>J</i> =8.82 Hz, 1 H) 7.64 (s, 1 H) 7.88 (d, <i>J</i> =7.94 Hz, 2 H) 8.05 (s, 1 H) 8.37 (s, 2 H) 9.63 (br. s., 3 H) 11.48 (br. s., 2 H)

190	N-methyl-3-[6-(3,4,5-trifluoro- phenylamino)-pyrimidin-4- ylamino]-benzenesulfonamide hydrochloride	0.99°	410.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.41 (s, 3 H) 6.34 (s, 1 H) 7.47 - 7.62 (m, 4 H) 7.81 (d, <i>J</i> =9.26 Hz, 1 H) 8.00 (s, 1 H) 8.44 (s, 1 H) 10.19 (s, 1 H) 10.31 (s, 1 H)
191	3-[6-(indan-5-ylamino)-pyrimidin- 4-ylamino]- <i>N</i> -methyl- benzenesulfonamide trifluoroacetate	0.93°	395.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.03 (quin, <i>J</i> =7.40 Hz, 2 H) 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 2.79 - 2.91 (m, 4 H) 6.13 (s, 1 H) 7.16 - 7.24 (m, 2 H) 7.35 - 7.41 (m, 2 H) 7.46 (q, <i>J</i> =4.60 Hz, 1 H) 7.54 (t, <i>J</i> =8.03 Hz, 1 H) 7.85 (d, <i>J</i> =8.03 Hz, 1 H) 8.04 (s, 1 H) 8.36 (s, 1 H) 9.45 (br. s., 1 H) 9.79 (br. s., 1 H)
192	3-[6-(4-chloro-phenylamino)- pyrimidin-4-ylamino]- <i>N</i> -methyl-4- (propane-2-sulfonyl)- benzenesulfonamide	1.26°	495.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.18 (d, <i>J</i> =6.78 Hz, 6 H) 2.50 (d, 3H, obscured by solvent) 3.52 (spt, 1H, obscured by solvent) 6.32 (s, 1 H) 7.37 (d, <i>J</i> =8.78 Hz, 2 H) 7.65 (d, <i>J</i> =8.78 Hz, 3 H) 7.80 (q, <i>J</i> =4.68 Hz, 1 H) 8.05 (d, <i>J</i> =8.28 Hz, 1 H) 8.36 (s, 1 H) 8.51 (s, 1 H) 9.00 (s, 1 H) 9.57 (s, 1 H)
193	3-(6-(3-bromo-5-methylphenylamino)pyrimidin-4-ylamino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide	1.12°	527.8 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.26 (s, 3 H) 2.47 (d, 3H, obscured by solvent) 3.28 (s, 3 H) 6.32 (s, 1 H) 6.96 - 7.00 (m, 1 H) 7.32 (s, 1 H) 7.64 (dd, <i>J</i> =8.38, 1.76 Hz, 1 H) 7.78 - 7.84 (m, 2 H) 8.08 (d, <i>J</i> =8.16 Hz, 1 H) 8.34 (s, 1 H) 8.39 (d, <i>J</i> =1.54 Hz, 1 H) 8.92 (s, 1 H) 9.56 (s, 1 H)
194	3-(6-(1 <i>H</i> -indol-6-ylamino)pyrimidin-4-ylamino)- <i>N</i> -methyl-4-(methylsulfonyl) benzenesulfonamide	0.89°	472.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.45 (d, <i>J</i> =5.07 Hz, 3 H) 3.27 (s, 3 H) 6.22 (s, 1 H) 6.39 (t, 1 H) 6.98 (dd, <i>J</i> =8.49, 1.87 Hz, 1 H) 7.31 (t, <i>J</i> =2.76 Hz, 1 H) 7.51 (d, <i>J</i> =8.38 Hz, 1 H) 7.60 (br. s., 1 H) 7.68 - 7.74 (m, 1 H) 7.77 (q, <i>J</i> =4.92 Hz, 1 H) 8.10 (d, <i>J</i> =8.38 Hz, 1 H) 8.28 (s, 1 H) 8.32 (s, 1 H) 9.23 (br. s., 1 H) 9.69 (br. s., 1 H) 11.09 (br. s., 1 H)

195	3-(6-(3- ethynylphenylamino)pyrimidin-4- ylamino)- <i>N</i> -methyl-4- (methylsulfonyl)benzenesulfona mide	0.98°	458.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 3.27 (s, 3 H) 4.15 (s, 1 H) 6.28 (s, 1 H) 7.07 (d, <i>J</i> =7.72 Hz, 1 H) 7.29 (t, <i>J</i> =8.05 Hz, 1 H) 7.54 (dd, <i>J</i> =7.83, 1.65 Hz, 1 H) 7.63 (dd, <i>J</i> =8.38, 1.76 Hz, 1 H) 7.73 - 7.80 (m, 2 H) 8.07 (d, <i>J</i> =8.38 Hz, 1 H) 8.33 (s, 1 H) 8.40 (d, <i>J</i> =1.54 Hz, 1 H) 8.93 (s, 1 H) 9.50 (s, 1 H)
196	3-[6-(indan-5-ylamino)-pyrimidin- 4-ylamino]-4-methanesulfonyl- <i>N</i> -methyl-benzenesulfonamide	1.15°	473.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.99 (quin, <i>J</i> =7.35 Hz, 2 H) 2.47 (d, 3H, obscured by solvent) 2.74 - 2.88 (m, 4 H) 3.28 (s, 3 H) 6.23 (s, 1 H) 7.11 - 7.25 (m, 2 H) 7.38 (s, 1 H) 7.76 (d, <i>J</i> =4.90 Hz, 2 H) 8.08 (d, <i>J</i> =8.29 Hz, 1 H) 8.29 (s, 1 H) 8.38 (s, 1 H) 8.97 (br. s., 1 H) 9.40 (br. s., 1 H)
197	3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl- <i>N</i> -methylbenzenesulfonamide	1.02°	490.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 3.29 (s, 3 H) 6.34 (s, 1 H) 7.58 (dd, 1 H) 7.68 (dd, <i>J</i> =8.29, 1.88 Hz, 1 H) 7.78 (q, <i>J</i> =5.02 Hz, 1 H) 8.01 (d, <i>J</i> =8.67 Hz, 1 H) 8.10 (d, <i>J</i> =8.29 Hz, 1 H) 8.37 (s, 1 H) 8.39 (d, <i>J</i> =1.88 Hz, 1 H) 8.49 (d, <i>J</i> =1.88 Hz, 1 H) 9.05 (br. s., 1 H) 9.24 (s, 1 H) 9.78 (s, 1 H)
198	4-methanesulfonyl- <i>N</i> -methyl-3- [6-(5-oxo-5,6,7,8-tetrahydro- naphthalen-2-ylamino)- pyrimidin-4-ylamino]- benzenesulfonamide	1.14°	502.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.93 - 2.04 (m, 2 H) 2.47 (d, 3H, and t, 2H, obscured by solvent) 2.88 (t, <i>J</i> =5.46 Hz, 2 H) 3.29 (s, 3 H) 6.38 (s, 1 H) 7.57 (dd, <i>J</i> =8.67, 1.88 Hz, 1 H) 7.62 (s, 1 H) 7.68 (dd, <i>J</i> =8.29, 1.51 Hz, 1 H) 7.75 - 7.83 (m, 2 H) 8.11 (d, <i>J</i> =8.29 Hz, 1 H) 8.40 (s, 2 H) 9.05 (br. s., 1 H) 9.81 (s, 1 H)
199	N-methyl-3-(6-(2-methylbenzo[d]thiazol-5-ylamino)pyrimidin-4-ylamino)-4-(methylsulfonyl)benzenesulfonamide	0.93°	505.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.50 (d, 3H) 2.79 (s, 3 H) 3.32 (s, 3 H) 6.38 (s, 1 H) 7.53 (dd, <i>J</i> =8.66, 1.88 Hz, 1 H) 7.67 (dd, <i>J</i> =8.28, 1.76 Hz, 1 H) 7.81 (q, <i>J</i> =4.94 Hz, 1 H) 7.94 (d, 1 H) 8.11 (d, <i>J</i> =8.28 Hz, 1 H) 8.28 (d, <i>J</i> =1.51 Hz, 1 H) 8.37 (s, 1 H) 8.46 (s, 1 H) 8.96 (s, 1 H) 9.64 (s, 1 H)

200	N-methyl-4-(methylsulfonyl)-3- [(6-{[4-(1 <i>H</i> -1,2,4-triazol-1- ylmethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide	0.81°	515.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 3.26 (s, 3 H) 5.31 (s, 2 H) 6.30 (s, 1 H) 7.22 (d, <i>J</i> =8.60 Hz, 2 H) 7.51 (d, <i>J</i> =8.16 Hz, 2 H) 7.60 (dd, <i>J</i> =8.27, 1.43 Hz, 1 H) 7.72 - 7.79 (m, 1 H) 7.94 (s, 1 H) 8.05 (d, <i>J</i> =8.38 Hz, 1 H) 8.27 (s, 1 H) 8.40 (s, 1 H) 8.60 (s, 1 H) 8.82 (br. s., 1 H) 9.45 (s, 1 H)
201	3-[6-(1 <i>H</i> -indol-5-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl- <i>N</i> -methylbenzenesulfonamide	0.97°	472.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (300 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.45 (d, 3H, obscured by solvent) 3.26 (s, 3 H) 6.15 (s, 1 H) 6.44 (br. s., 1 H) 7.05 (dd, <i>J</i> =8.67, 1.88 Hz, 1 H) 7.38 (t, <i>J</i> =2.64 Hz, 1 H) 7.43 (d, <i>J</i> =8.67 Hz, 1 H) 7.56 (s, 1 H) 7.73 - 7.84 (m, 2 H) 8.08 - 8.19 (m, 2 H) 8.33 (s, 1 H) 9.46 (br. s., 1 H) 9.93 (br. s., 1 H) 11.21 (br. s., 1 H)
202	4-methanesulfonyl- <i>N</i> -methyl-3- [6-(2-methyl-4-oxo-4 <i>H</i> -chromen- 7-ylamino)-pyrimidin-4-ylamino]- benzenesulfonamide	0.98°	516.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.35 (s, 3 H) 2.50 (d, 3H, obscured by solvent) 3.29 (s, 3 H) 6.12 (d, <i>J</i> =0.66 Hz, 1 H) 6.39 (s, 1 H) 7.40 (dd, <i>J</i> =8.60, 1.98 Hz, 1 H) 7.68 (dd, <i>J</i> =8.38, 1.76 Hz, 1 H) 7.75 - 7.81 (m, 1 H) 7.87 (d, <i>J</i> =8.82 Hz, 1 H) 8.11 (d, <i>J</i> =8.16 Hz, 1 H) 8.25 (d, <i>J</i> =1.98 Hz, 1 H) 8.41 (d, <i>J</i> =1.76 Hz, 1 H) 8.45 (s, 1 H) 9.05 (s, 1 H) 9.98 (s, 1 H)
203	5-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)-2-fluoro- <i>N</i> - methylbenzenesulfonamide	2.23ª	408.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.52 (s, 3 H) 6.01 (s, 1 H) 7.15 (t, $J$ =9.29 Hz, 1 H) 7.20 (d, $J$ =8.78 Hz, 2 H) 7.36 (d, $J$ =9.03 Hz, 2 H) 7.65 - 7.70 (m, 1 H) 7.92 - 7.95 (m, 1 H) 8.14 - 8.15 (m, 1 H)
204	5-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-2-fluoro- <i>N</i> -methyl-4- (1,1,1-trifluoropropan-2- yloxy)benzenesulfonamide	1.01°	520.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.40 (d, <i>J</i> =6.17 Hz, 3 H) 2.47 9d, 3H, obscured by solvent) 5.36 - 5.46 (m, 1 H) 5.99 (s, 1 H) 7.34 (d, <i>J</i> =8.82 Hz, 2 H) 7.47 - 7.60 (m, 3 H) 7.67 (m, <i>J</i> =4.85 Hz, 1 H) 7.92 (d, <i>J</i> =7.72 Hz, 1 H) 8.25 (s, 1 H) 8.89 (br. s., 1 H) 9.51 (br. s., 1 H)

205	1-{6-[(4-chlorophenyl)amino]-4- pyrimidinyl}- <i>N</i> -methyl-2,3- dihydro-1 <i>H</i> -indole-6- sulfonamide hydrochloride	2.28ª	415.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.08 (br. s., 1H), 8.76 (s, 1H), 8.51 (s, 1H), 7.66 (d, <i>J</i> = 9.03 Hz, 2H), 7.32 - 7.52 (m, 5H), 6.16 (s, 1H), 4.07 (t, <i>J</i> = 8.66 Hz, 2H), 3.30 (t, <i>J</i> = 8.53 Hz, 2H), 2.42 (s, 3H)
206	3-[(6-{[3,4- bis(methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.83ª	416.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.76 (br. s., 1H), 9.36 (br. s., 1H), 8.33 (s, 1H), 8.02 (s, 1H), 7.83 (d, $J$ = 8.06 Hz, 1H), 7.53 (t, $J$ = 7.93 Hz, 1H), 7.43 (q, $J$ = 4.64 Hz, 1H), 7.38 (d, $J$ = 7.57 Hz, 1H), 7.05 - 7.08 (m, 1H), 6.93 - 7.01 (m, 2H), 6.09 (s, 1H), 3.76 (s, 3H), 3.75 (s, 3H), 2.43 (d, $J$ = 4.88 Hz, 3H)
207	3-({6-[(3,4-dichlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	2.36ª	424.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.64 (s, 1H), 9.58 (s, 1H), 8.41 (s, 1H), 8.06 - 8.10 (m, 2H), 7.89 - 7.93 (m, 1H), 7.48 - 7.56 (m, 3H), 7.41 (q, <i>J</i> = 4.64 Hz, 1H), 7.35 (d, <i>J</i> = 7.81 Hz, 1H), 6.19 (s, 1H), 2.44 (d, <i>J</i> = 4.88 Hz, 3H)
208	3-({6-[(3,4-dimethylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	2.07ª	384.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.74 (br. s., 1H), 9.36 (br. s., 1H), 8.34 (s, 1H), 8.03 (s, 1H), 7.84 (d, $J$ = 8.06 Hz, 1H), 7.53 (t, $J$ = 7.93 Hz, 1H), 7.42 (q, $J$ = 4.80 Hz, 1H), 7.38 (d, $J$ = 7.81 Hz, 1H), 7.18 - 7.24 (m, 2H), 7.12 (d, $J$ = 8.06 Hz, 1H), 6.11 (s, 1H), 2.43 (d, $J$ = 4.88 Hz, 3H), 2.22 (s, 3H), 2.20 (s, 3H)
209	N-methyl-3-[(6-{[3-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	2.13ª	398.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.49 (br. s., 1H), 9.15 (br. s., 1H), 8.31 (s, 1H), 8.08 (s, 1H), 7.90 (d, $J$ = 7.32 Hz, 1H), 7.46 - 7.53 (m, 1H), 7.44 (d, $J$ = 7.81 Hz, 1H), 7.39 (q, $J$ = 4.80 Hz, 1H), 7.29 - 7.34 (m, 2H), 7.22 (t, $J$ = 7.81 Hz, 1H), 6.89 (d, $J$ = 7.57 Hz, 1H), 6.18 (s, 1H), 2.86 (dt, $J$ = 6.93, 13.73 Hz, 1H), 2.44 (d, $J$ = 5.13 Hz, 3H), 1.22 (s, 3H), 1.20 (s, 3H)

210	3-[(6-{[3-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	2.25ª	412.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.72 (br. s., 1H), 9.42 (br. s., 1H), 8.36 (s, 1H), 8.03 (s, 1H), 7.86 (d, <i>J</i> = 8.06 Hz, 1H), 7.53 (t, <i>J</i> = 7.93 Hz, 1H), 7.35 - 7.46 (m, 4H), 7.28 (t, <i>J</i> = 7.81 Hz, 1H), 7.11 (d, <i>J</i> = 7.81 Hz, 1H), 6.16 (s, 1H), 2.44 (d, <i>J</i> = 4.88 Hz, 3H), 1.29 (s, 9H)
211	3-[(6-{[3- (ethyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.99ª	400.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.60 (s, 1H), 9.29 (br. s., 1H), 8.35 (s, 1H), 8.07 (s, 1H), 7.86 - 7.91 (m, 1H), 7.51 (t, <i>J</i> = 7.93 Hz, 1H), 7.38 - 7.43 (m, 1H), 7.34 (d, <i>J</i> = 7.81 Hz, 1H), 7.17 - 7.23 (m, 2H), 7.03 - 7.09 (m, 1H), 6.56 - 6.61 (m, 1H), 6.21 (s, 1H), 4.01 (q, <i>J</i> = 6.84 Hz, 2H), 2.44 (d, <i>J</i> = 4.88 Hz, 3H), 1.33 (t, <i>J</i> = 6.96 Hz, 3H)
212	3-({6-[(4-fluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.95ª	374.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.69 (br. s., 1H), 9.42 (br. s., 1H), 8.35 (s, 1H), 8.05 (s, 1H), 7.85 (d, $J$ = 8.06 Hz, 1H), 7.50 - 7.57 (m, 3H), 7.42 (q, $J$ = 4.80 Hz, 1H), 7.37 (d, $J$ = 7.81 Hz, 1H), 7.18 (t, $J$ = 8.79 Hz, 2H), 6.12 (s, 1H), 2.44 (d, $J$ = 4.88 Hz, 3H)
213	N-methyl-3-[(6-{[3-(1-pyrrolidinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	2.08ª	425.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.87 (br. s., 1H), 9.48 (br. s., 1H), 8.36 (s, 1H), 8.01 (s, 1H), 7.83 (d, $J$ = 7.81 Hz, 1H), 7.54 (t, $J$ = 7.93 Hz, 1H), 7.38 - 7.45 (m, 2H), 7.15 (t, $J$ = 7.93 Hz, 1H), 6.70 (d, $J$ = 7.81 Hz, 1H), 6.58 (s, 1H), 6.34 (d, $J$ = 8.30 Hz, 1H), 6.21 (s, 1H), 3.22 (t, $J$ = 6.23 Hz, 4H), 2.43 (d, $J$ = 4.88 Hz, 3H), 1.96 (t, $J$ = 6.35 Hz, 4H)

214	N-methyl-3-[(6-{[3-(4-methyl-1-piperazinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	0.66ª	454.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.58 (m, 2H), 9.24 (s, 1H), 8.34 (s, 1H), 8.06 - 8.10 (m, 1H), 7.91 (dd, $J$ = 2.01, 7.78 Hz, 1H), 7.52 (t, $J$ = 7.91 Hz, 1H), 7.44 (q, $J$ = 4.85 Hz, 1H), 7.34 (d, $J$ = 7.78 Hz, 1H), 7.17 - 7.25 (m, 2H), 7.07 (d, $J$ = 8.28 Hz, 1H), 6.67 - 6.74 (m, 1H), 6.19 (s, 1H), 3.76 - 3.85 (m, 2H), 3.50 - 3.58 (m, 2H), 3.12 - 3.25 (m, 2H), 2.91 - 3.03 (m, 2H), 2.88 (d, $J$ = 4.77 Hz, 3H), 2.44 (d, $J$ = 5.02 Hz, 3H)
215	3-({6-[(3,5-dichlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.49ª	423.8 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (s, 1H), 9.68 (s, 1H), 8.45 (s, 1H), 8.09 (t, $J = 1.76$ Hz, 1H), 7.91 - 7.97 (m, 1H), 7.77 (s, 1H), 7.76 (s, 1H), 7.54 (t, $J = 7.91$ Hz, 1H), 7.46 (q, $J = 4.94$ Hz, 1H), 7.36 (d, $J = 8.03$ Hz, 1H), 7.14 (t, $J = 1.76$ Hz, 1H), 6.21 (s, 1H), 2.45 (d, $J = 5.02$ Hz, 3H)
216	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1 <i>H</i> -indol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfo namide trifluoroacetate	1.63ª	410.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.39 (s, 1H), 9.78 (br. s., 1H), 9.42 (br. s., 1H), 8.34 (s, 1H), 8.03 (s, 1H), 7.83 (d, $J$ = 8.03 Hz, 1H), 7.54 (t, $J$ = 7.91 Hz, 1H), 7.46 (q, $J$ = 4.85 Hz, 1H), 7.36 - 7.42 (m, 2H), 7.18 - 7.25 (m, 1H), 6.82 (d, $J$ = 8.28 Hz, 1H), 6.05 (s, 1H), 3.51 (s, 2H), 2.44 (d, $J$ = 5.02 Hz, 3H)
217	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1,3-benzoxazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide trifluoroacetate	1.70ª	413.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.56 (s, 1H), 9.62 (s, 1H), 9.37 (s, 1H), 8.34 (s, 1H), 8.08 (t, <i>J</i> = 2.13 Hz, 1H), 7.85 - 7.91 (m, 1H), 7.63 - 7.67 (m, 1H), 7.52 (t, <i>J</i> = 7.91 Hz, 1H), 7.44 (q, <i>J</i> = 5.02 Hz, 1H), 7.35 (dt, <i>J</i> = 1.19, 7.91 Hz, 1H), 7.19 (dd, <i>J</i> = 2.13, 8.41 Hz, 1H), 7.06 (d, <i>J</i> = 8.28 Hz, 1H), 6.13 (s, 1H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)

218	N-methyl-3-({6-[(2-oxo-2,3-dihydro-1 <i>H</i> -benzimidazol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfo namide trifluoroacetate	1.58ª	411.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.56 (s, 1H), 10.51 (s, 1H), 9.48 (s, 1H), 9.06 (br. s., 1H), 8.28 (s, 1H), 8.08 - 8.11 (m, 1H), 7.84 - 7.90 (m, 1H), 7.49 (t, <i>J</i> = 8.03 Hz, 1H), 7.39 - 7.46 (m, 1H), 7.31 (d, <i>J</i> = 8.03 Hz, 1H), 7.26 (s, 1H), 6.93 - 6.98 (m, 1H), 6.88 (d, <i>J</i> = 8.28 Hz, 1H), 6.07 (s, 1H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
219	N-methyl-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfo namide trifluoroacetate	1.77ª	424.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.13 (s, 1H), 9.72 (s, 1H), 9.42 (br. s., 1H), 8.35 (s, 1H), 8.06 (s, 1H), 7.83 - 7.89 (m, 1H), 7.53 (t, <i>J</i> = 8.03 Hz, 1H), 7.45 (q, <i>J</i> = 4.77 Hz, 1H), 7.37 (d, <i>J</i> = 7.78 Hz, 1H), 7.06 - 7.16 (m, 2H), 7.02 (s, 1H), 6.16 (s, 1H), 2.84 (t, <i>J</i> = 7.53 Hz, 2H), 2.42 - 2.48 (m, 5H)
220	3-({6-[(3-bromo-5-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	1.96ª	470.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.67 (s, 1H), 9.62 (s, 1H), 8.43 (s, 1H), 8.07 (s, 1H), 7.93 (d, $J$ = 7.81 Hz, 1H), 7.87 (s, 1H), 7.81 (s, 1H), 7.53 (t, $J$ = 7.93 Hz, 1H), 7.42 (q, $J$ = 4.88 Hz, 1H), 7.36 (d, $J$ = 7.57 Hz, 1H), 7.24 (s, 1H), 6.20 (s, 1H), 2.45 (d, $J$ = 4.88 Hz, 3H)
221	3-({6-[(3,5-dimethylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	1.49ª	384.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.72 (br. s., 1H), 9.34 (br. s., 1H), 8.36 (s, 1H), 8.03 (s, 1H), 7.86 (d, <i>J</i> = 7.81 Hz, 1H), 7.53 (t, <i>J</i> = 7.93 Hz, 1H), 7.42 (q, <i>J</i> = 4.56 Hz, 1H), 7.38 (d, <i>J</i> = 7.57 Hz, 1H), 7.11 (s, 2H), 6.72 (s, 1H), 6.16 (s, 1H), 2.44 (d, <i>J</i> = 4.64 Hz, 3H), 2.26 (s, 6H)
222	N-methyl-3-{[6-({4- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzenesulfo namide trifluoroacetate	1.33ª	449.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO-d6) δ ppm 9.72 (s, 1H), 9.65 (s, 1H), 8.42 (s, 1H), 8.09 (s, 1H), 7.92 (d, <i>J</i> = 8.1 Hz, 1H), 7.82 (d, <i>J</i> = 8.8 Hz, 2H), 7.69 (d, <i>J</i> = 8.6 Hz, 2H), 7.52 (t, <i>J</i> = 7.9 Hz, 1H), 7.41 (q, <i>J</i> = 4.9 Hz, 1H), 7.35 (d, <i>J</i> = 7.8 Hz, 1H), 7.24 (q, <i>J</i> = 5.0 Hz, 1H), 6.28 (s, 1H), 2.45 (d, <i>J</i> = 4.9 Hz, 3H), 2.40 (d, <i>J</i> = 4.6 Hz, 3H)

223	N-methyl-3-[(6-{[3-(1-pyrrolidinylmethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	1.56ª	439.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.37 - 8.41 (m, 1H), 8.07 (d, $J$ = 1.76 Hz, 1H), 7.74 (s, 1H), 7.67 - 7.72 (m, 1H), 7.58 - 7.65 (m, 2H), 7.47 - 7.58 (m, 2H), 7.35 (d, $J$ = 6.27 Hz, 1H), 6.26 (s, 1H), 4.42 (s, 2H), 3.43 - 3.65 (m, 2H), 3.11 - 3.29 (m, 2H), 2.54 - 2.61 (m, 3H), 2.00 - 2.25 (m, 4H)
224	N-methyl-3-({6-[(4-{[2-(4-morpholinyl)ethyl]oxy}phenyl)am ino]-4-pyrimidinyl}amino)benzenesulfo namide trifluoroacetate	1.44ª	485.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.35 (br. s., 1H), 9.65 (br. s., 1H), 9.29 (br. s., 1H), 8.32 (s, 1H), 8.08 (s, 1H), 7.81 - 7.89 (m, 1H), 7.43 - 7.55 (m, 4H), 7.35 (d, $J = 7.78$ Hz, 1H), 7.01 (d, $J = 9.03$ Hz, 2H), 6.11 (s, 1H), 4.36 (t, $J = 4.89$ Hz, 2H), 3.95 - 4.05 (m, 2H), 3.75 (t, $J = 12.05$ Hz, 2H), 3.47 - 3.62 (m, 4H), 3.15 - 3.28 (m, 2H), 2.44 (d, $J = 5.02$ Hz, 3H)
225	3-({6-[(4-{[2- (dimethylamino)ethyl]oxy}phenyl )amino]-4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.58ª	443.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.09 (br. s., 1H), 9.86 (br. s., 1H), 9.52 (br. s., 1H), 8.35 (s, 1H), 8.05 (s, 1H), 7.83 (d, <i>J</i> = 8.03 Hz, 1H), 7.42 - 7.57 (m, 4H), 7.39 (d, <i>J</i> = 7.78 Hz, 1H), 7.03 (d, <i>J</i> = 8.78 Hz, 2H), 6.13 (s, 1H), 4.33 (t, <i>J</i> = 4.89 Hz, 2H), 3.51 (q, <i>J</i> = 5.19 Hz, 2H), 2.86 (d, <i>J</i> = 5.02 Hz, 6H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
226	N-methyl-3-{[6-({3-[(4-methyl-1-piperazinyl)methyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	1.49ª	468.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, CDCl3) δ ppm 8.28 (s, 1H), 8.04 (br. s., 1H), 7.77 (br. s., 1H), 7.66 (d, $J = 7.78$ Hz, 1H), 7.53 (t, $J = 7.91$ Hz, 1H), 7.37 - 7.49 (m, 2H), 7.30 - 7.37 (m, 1H), 7.14 (d, J = 7.53 Hz, 1H), 6.40 (br. s., 1H), 3.95 (br. s., 2H), 2.89 - 3.45 (m, 8H), 2.76 (s, 3H), 2.67 (d, $J = 5.27$ Hz, 3H)

227	N-methyl-3-[(6-{[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.34ª	423.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (s, 1H), 9.67 (s, 1H), 8.42 (s, 1H), 8.11 (t, $J = 1.88$ Hz, 1H), 7.93 (dd, $J = 1.51$ , 8.28 Hz, 1H), 7.86 (d, $J = 8.78$ Hz, 2H), 7.65 (d, $J = 8.78$ Hz, 2H), 7.53 (t, $J = 8.03$ Hz, 1H), 7.45 (q, $J = 5.02$ Hz, 1H), 7.35 (d, $J = 7.78$ Hz, 1H), 6.27 (s, 1H), 2.45 (d, $J = 5.02$ Hz, 3H)
228	N-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	2.28ª	398.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.79 (br. s., 1H), 9.47 (br. s., 1H), 8.36 (s, 1H), 8.06 (s, 1H), 7.85 (d, $J$ = 8.03 Hz, 1H), 7.54 (t, $J$ = 7.91 Hz, 1H), 7.46 (q, $J$ = 5.02 Hz, 1H), 7.35 - 7.42 (m, 3H), 7.24 (d, $J$ = 8.53 Hz, 2H), 6.16 (s, 1H), 2.88 (dt, $J$ = 6.90, 13.80 Hz, 1H), 2.44 (d, $J$ = 5.02 Hz, 3H), 1.21 (d, $J$ = 6.78 Hz, 6H)
229	N-methyl-3-{[6-({4-[(1-methylethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	2.11 <sup>a</sup>	414.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.77 (br. s., 1H), 9.35 (br. s., 1H), 8.33 (s, 1H), 8.04 (s, 1H), 7.76 - 7.88 (m, 1H), 7.53 (t, $J = 8.03$ Hz, 1H), 7.46 (q, J = 4.94 Hz, 1H), 7.28 - 7.42 (m, 3H), 6.94 (d, $J = 8.78$ Hz, 2H), 6.05 (s, 1H), 4.58 (dt, $J = 6.02$ , 12.05 Hz, 1H), 2.44 (d, $J = 5.02$ Hz, 3H), 1.27 (d, $J = 6.02$ Hz, 6H)
230	3-{[6-({4- [(difluoromethyl)oxy]phenyl}amin o)-4-pyrimidinyl]amino}- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.08ª	421.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.68 (s, 1H), 9.46 (s, 1H), 8.36 (s, 1H), 8.08 (s, 1H), 7.84 - 7.91 (m, 1H), 7.59 (d, <i>J</i> = 9.03 Hz, 2H), 7.53 (t, <i>J</i> = 8.03 Hz, 1H), 7.45 (q, <i>J</i> = 4.94 Hz, 1H), 7.31 - 7.39 (m, 1H), 7.13 - 7.20 (m, 3H), 6.16 (s, 1H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
231	N-methyl-3-[(6-{[4-(2-oxo-1-pyrrolidinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	1.84 <sup>a</sup>	439.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.32 - 8.37 (m, 1H), 8.00 - 8.06 (m, 1H), 7.70 - 7.77 (m, 2H), 7.58 - 7.70 (m, 3H), 7.38 - 7.47 (m, 2H), 6.16 (s, 1H), 3.92 - 4.01 (m, 2H), 2.59 - 2.68 (m, 2H), 2.53 - 2.58 (m, 3H), 2.16 - 2.28 (m, 2H)

232	3-[(6-{[3-chloro-4- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.17ª	420.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ 9.71 (s, 1H), 9.39 (br. s., 1H), 8.36 (s, 1H), 8.06 (s, 1H), 7.85 - 7.90 (m, 1H), 7.73 (d, $J = 2.51$ Hz, 1H), 7.53 (t, $J = 8.03$ Hz, 1H), 7.45 (q, $J = 4.85$ Hz, 1H), 7.34 - 7.42 (m, 2H), 7.15 (d, $J = 9.03$ Hz, 1H), 6.09 (s, 1H), 3.84 (s, 3H), 2.44 (d, $J = 5.02$ Hz, 3H)
233	3-({6-[(4- cyclopropylphenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.12ª	396.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ 9.61 (s, 1H), 9.25 (s, 1H), 8.32 (s, 1H), 8.08 (s, 1H), 7.84 - 7.89 (m, 1H), 7.47 - 7.55 (m, 1H), 7.44 (q, <i>J</i> = 4.94 Hz, 1H), 7.31 - 7.41 (m, 3H), 7.05 (d, <i>J</i> = 8.53 Hz, 2H), 6.13 (s, 1H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H), 1.82 - 1.95 (m, 1H), 0.88 - 0.96 (m, 2H), 0.58 - 0.67 (m, 2H)
234	N-methyl-3-[(6-{[4-(1H-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.97ª	422.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ 9.67 (s, 1H), 9.51 (s, 1H), 8.42 (d, $J$ = 2.26 Hz, 1H), 8.39 (s, 1H), 8.09 (s, 1H), 7.88 - 7.94 (m, 1H), 7.75 - 7.81 (m, 2H), 7.65 - 7.74 (m, 3H), 7.53 (t, $J$ = 8.03 Hz, 1H), 7.45 (q, $J$ = 4.94 Hz, 1H), 7.36 (d, $J$ = 7.78 Hz, 1H), 6.53 (t, $J$ = 2.01 Hz, 1H), 6.21 (s, 1H), 2.45 (d, $J$ = 5.02 Hz, 3H)
235	3-[(6-{[4-(3,5-dimethyl-1 <i>H</i> -pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.04ª	450.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ 9.72 (s, 1H), 9.59 (s, 1H), 8.40 (s, 1H), 8.09 (s, 1H), 7.86 - 7.93 (m, 1H), 7.69 (d, <i>J</i> = 8.78 Hz, 2H), 7.54 (t, <i>J</i> = 8.03 Hz, 1H), 7.40 - 7.50 (m, 3H), 7.37 (d, <i>J</i> = 7.78 Hz, 1H), 6.23 (s, 1H), 6.05 (s, 1H), 2.45 (d, <i>J</i> = 4.77 Hz, 3H), 2.28 (s, 3H), 2.18 (s, 3H)
236	3-[(6-{[4-chloro-3- (methyloxy)phenyl]amino}-4- pyrimidinyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.12ª	420.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.69 (s, 1H), 9.52 (s, 1H), 8.39 (s, 1H), 8.05 - 8.09 (m, 1H), 7.87 - 7.94 (m, 1H), 7.53 (t, $J = 8.03$ Hz, 1H), 7.45 (q, $J = 4.94$ Hz, 1H), 7.32 - 7.40 (m, 3H), 7.24 (dd, $J = 2.13$ , 8.66 Hz, 1H), 6.21 (s, 1H), 3.85 (s, 3H), 2.45 (d, $J = 4.77$ Hz, 3H)

237	N-methyl-3-[(6-{[4-(2-thienyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	2.26ª	438.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (s, 1H), 9.55 (s, 1H), 8.39 (s, 1H), 8.09 (s, 1H), 7.86 - 7.92 (m, 1H), 7.63 (s, 4H), 7.54 (t, <i>J</i> = 8.03 Hz, 1H), 7.42 - 7.51 (m, 3H), 7.37 (d, <i>J</i> = 7.78 Hz, 1H), 7.13 (dd, <i>J</i> = 3.64, 4.89 Hz, 1H), 6.23 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
238	N-methyl-3-[(6-{[4-(2-methyl-1 <i>H</i> -imidazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.59ª	436.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.74 (s, 1H), 9.70 (s, 1H), 8.42 (s, 1H), 8.09 - 8.13 (m, 1H), 7.85 - 7.95 (m, 4H), 7.78 (t, $J = 1.63$ Hz, 1H), 7.50 - 7.57 (m, 3H), 7.46 (q, $J = 4.68$ Hz, 1H), 7.36 (d, $J = 7.53$ Hz, 1H), 6.29 (s, 1H), 2.53 - 2.56 (m, 3H), 2.45 (d, $J = 4.02$ Hz, 3H)
239	N-methyl-3-[(6-{[4-(1-methylpropyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	2.30ª	412.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.78 (br. s., 1H), 9.44 (br. s., 1H), 8.36 (s, 1H), 8.06 (s, 1H), 7.85 (d, <i>J</i> = 8.03 Hz, 1H), 7.54 (t, <i>J</i> = 7.91 Hz, 1H), 7.46 (q, <i>J</i> = 4.77 Hz, 1H), 7.39 (d, <i>J</i> = 8.28 Hz, 3H), 7.19 (d, <i>J</i> = 8.28 Hz, 2H), 6.16 (s, 1H), 2.54 - 2.62 (m, 1H), 2.44 (d, <i>J</i> = 4.77 Hz, 3H), 1.50 - 1.61 (m, 2H), 1.19 (d, <i>J</i> = 6.78 Hz, 3H), 0.79 (t, <i>J</i> = 7.40 Hz, 3H)
240	N-methyl-3-{[6-(6-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide	1.68ª	407.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.55 - 9.74 (m, 2H), 8.75 (br. s., 1H), 8.45 (br. s., 1H), 8.33 (br. s., 1H), 8.26 (d, <i>J</i> = 6.02 Hz, 1H), 8.12 (br. s., 1H), 7.96 (br. s., 2H), 7.88 (br. s., 1H), 7.41 - 7.59 (m, 3H), 7.26 - 7.41 (m, 1H), 6.32 (br. s., 1H), 2.45 (br. s., 3H)
241	N-methyl-3-{[6-({4- [(trifluoromethyl)thio]phenyl}ami no)-4- pyrimidinyl]amino}benzenesulfo namide trifluoroacetate	2.54 <sup>a</sup>	456.0 (M+H) <sup>*</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.72 (s, 1 H), 9.70 (s, 1 H), 8.42 (s, 1 H), 8.10 (s, 1 H), 7.93 (d, $J$ =8.03 Hz, 1 H), 7.80 (d, $J$ =8.78 Hz, 2 H), 7.64 (d, $J$ =8.78 Hz, 2 H), 7.53 (t, $J$ =8.03 Hz, 1 H), 7.45 (q, $J$ =4.94 Hz, 1 H), 7.36 (d, $J$ =7.78 Hz, 1 H), 6.27 (s, 1 H), 2.45 (d, $J$ =5.02 Hz, 3 H)

242	3-({6-[(4-bromophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.21	434.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.61 (s, 1 H), 9.43 (s, 1 H), 8.37 (s, 1 H), 8.07 - 8.13 (m, 1 H), 7.91 (d, <i>J</i> =8.03 Hz, 1 H), 7.56 - 7.62 (m, 2 H), 7.52 (t, <i>J</i> =8.03 Hz, 1 H), 7.48 (d, <i>J</i> =8.78 Hz, 2 H), 7.44 (q, <i>J</i> =5.10 Hz, 1 H), 7.34 (d, <i>J</i> =7.78 Hz, 1 H), 6.19 (s, 1 H), 2.44 (d, <i>J</i> =5.02 Hz, 3 H)
243	N-methyl-3-[(6-{[4- (methylthio)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.13ª	402.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.63 (s, 1 H), 9.36 (s, 1 H), 8.35 (s, 1 H), 8.09 (s, 1 H), 7.85 - 7.92 (m, 1 H), 7.49 - 7.55 (m, 3 H), 7.44 (q, <i>J</i> =5.02 Hz, 1 H), 7.35 (d, <i>J</i> =7.78 Hz, 1 H), 7.27 (d, <i>J</i> =8.78 Hz, 2 H), 6.16 (s, 1 H), 2.46 (s, 3 H), 2.44 (d, <i>J</i> =4.77 Hz, 3 H)
244	N-methyl-3-{[6-({4- [(trifluoromethyl)oxy]phenyl}ami no)-4- pyrimidinyl]amino}benzenesulfo namide trifluoroacetate	2.31 <sup>a</sup>	440.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.65 (s, 1 H), 9.52 (s, 1 H), 8.37 (s, 1 H), 8.07 - 8.14 (m, 1 H), 7.90 (d, <i>J</i> =7.78 Hz, 1 H), 7.70 (d, <i>J</i> =9.04 Hz, 2 H), 7.53 (t, <i>J</i> =7.91 Hz, 1 H), 7.45 (q, <i>J</i> =4.94 Hz, 1 H), 7.30 - 7.38 (m, 3 H), 6.20 (s, 1 H), 2.45 (d, <i>J</i> =5.02 Hz, 3 H)
245	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(dimethylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.12ª	432.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.73 (br. s., 1H), 9.21 (br. s., 1H), 8.33 (s, 1H), 7.78 - 7.83 (m, 1H), 7.55 (d, <i>J</i> = 8.81 Hz, 2H), 7.51 (dd, <i>J</i> = 2.27, 8.56 Hz, 1H), 7.38 (d, <i>J</i> = 8.81 Hz, 2H), 7.30 (q, <i>J</i> = 4.95 Hz, 1H), 7.20 (d, <i>J</i> = 8.56 Hz, 1H), 6.01 (s, 1H), 2.77 (s, 6H), 2.41 (d, <i>J</i> = 5.04 Hz, 3H)
246	4-(dimethylamino)- <i>N</i> -methyl-3- ({6-[(3-methylphenyl)amino]-4- pyrimidinyl}amino)benzenesulfo namide trifluoroacetate	2.08ª	413.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.84 (br. s., 1H), 9.51 (br. s., 1H), 8.36 (s, 1H), 7.72 - 7.77 (m, 1H), 7.54 (dd, J = 2.13, 8.66 Hz, 1H), 7.32 (q, $J =5.02 Hz, 1H), 7.22 - 7.29 (m, 3H),7.20 (d, J = 8.78 Hz, 1H), 6.96 (d, J =6.27 Hz, 1H), 5.98 (s, 1H), 2.77 (s,6H), 2.40 (d, J = 4.77 Hz, 3H), 2.30 (s,3H)$

247	N-methyl-1-(6-{[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)-2,3-dihydro-1 <i>H</i> - indole-6-sulfonamide trifluoroacetate	2.56ª	451.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.85 (s, 1H), 8.83 (s, 1H), 8.53 (s, 1H), 7.92 (d, $J = 8.53$ Hz, 2H), 7.66 (d, $J = 8.53$ Hz, 2H), 7.39 - 7.46 (m, 2H), 7.33 (d, $J = 7.78$ Hz, 1H), 6.14 (s, 1H), 4.07 (t, $J = 8.66$ Hz, 2H), 3.31 (t, $J = 8.66$ Hz, 2H), 2.42 (d, $J = 4.27$ Hz, 3H)
248	1-{6-[(4-chlorophenyl)amino]-4- pyrimidinyl}- <i>N</i> -methyl-1 <i>H</i> - benzimidazole-6-sulfonamide trifluoroacetate	2.06ª	415.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.42 (d, <i>J</i> =5.02 Hz, 3 H) 7.15 (s, 1 H) 7.44 (d, <i>J</i> =8.78 Hz, 2 H) 7.51 - 7.60 (m, 1 H) 7.72 - 7.82 (m, 3 H) 8.01 (d, <i>J</i> =8.28 Hz, 1 H) 8.76 - 8.82 (m, 2 H) 9.17 (s, 1 H) 10.16 (s, 1 H)
249	3-({6-[(5-bromo-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.20ª	546.8 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 2.50 (s, 3H, obscured by solvent) 4.91 (q, <i>J</i> =8.78 Hz, 2 H) 7.12 (br. s., 1 H) 7.25 (d, <i>J</i> =8.53 Hz, 1 H) 7.43 - 7.50 (m, 2 H) 7.65 (dd, <i>J</i> =8.66, 2.13 Hz, 1 H) 7.91 (d, <i>J</i> =8.78 Hz, 1 H) 7.96 (d, <i>J</i> =2.01 Hz, 1 H) 8.39 (s, 1 H) 9.50 (br. s., 1 H) 10.42 (br. s., 1 H)
250	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(1-methylethyl)oxy]benzenesulfonamide trifluoroacetate	2.26ª	447.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.78 (br. s., 1H), 9.12 (br. s., 1H), 8.37 (s, 1H), 8.06 (br. s., 1H), 7.56 (d, J = 8.28 Hz, 3H), 7.41 (d, J = 8.78 Hz, 2H), 7.34 - 7.38 (m, 1H), 7.32 (d, J = 8.78 Hz, 1H), 6.13 (s, 1H), 4.77 (dt, J = 5.83, 11.92 Hz, 1H), 2.42 (d, J = 4.52 Hz, 3H), 1.29 (d, J = 6.02 Hz, 6H)
251	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(4-morpholinyl)benzenesulfonamid e trifluoroacetate	2.09ª	474.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.66 (br. s., 1H), 9.03 (br. s., 1H), 8.34 (s, 1H), 7.89 - 7.94 (m, 1H), 7.60 (d, <i>J</i> = 9.03 Hz, 2H), 7.54 (dd, <i>J</i> = 2.01, 8.53 Hz, 1H), 7.34 - 7.42 (m, 3H), 7.27 (d, <i>J</i> = 8.53 Hz, 1H), 6.07 (s, 1H), 3.60 - 3.68 (m, 4H), 2.95 - 3.01 (m, 4H), 2.43 (d, <i>J</i> = 5.02 Hz, 3H)

252	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methyloxy)benzenesulfonamide trifluoroacetate	2.10ª	420.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.62 (br. s., 1H), 9.10 (br. s., 1H), 8.34 (s, 1H), 8.25 (br. s., 1H), 7.50 - 7.61 (m, 3H), 7.39 (d, $J = 8.78$ Hz, 2H), 7.34 (q, $J = 4.85$ Hz, 1H), 7.29 (s, 1H), 6.21 (s, 1H), 3.93 (s, 3H), 2.42 (d, $J = 5.02$ Hz, 3H)
253	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4- [ethyl(methyl)amino]- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.21ª	446.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.70 (br. s., 1H), 9.09 (br. s., 1H), 8.34 (s, 1H), 7.82 (br. s., 1H), 7.57 (d, $J$ = 8.28 Hz, 2H), 7.52 (d, $J$ = 8.28 Hz, 1H), 7.38 (d, $J$ = 8.53 Hz, 2H), 7.32 (d, $J$ = 4.77 Hz, 1H), 7.23 (d, $J$ = 8.53 Hz, 1H), 5.99 (s, 1H), 2.98 - 3.13 (m, 2H), 2.75 (s, 3H), 2.41 (d, $J$ = 4.27 Hz, 3H), 1.01 (t, $J$ = 6.78 Hz, 3H)
254	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-hydroxy- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.99ª	405.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (br. s., 1H), 9.18 (br. s., 1H), 8.35 (s, 1H), 8.04 (s, 1H), 7.57 (d, $J$ = 9.03 Hz, 2H), 7.43 (dd, $J$ = 2.26, 8.53 Hz, 1H), 7.39 (d, $J$ = 8.78 Hz, 2H), 7.26 (q, $J$ = 4.94 Hz, 1H), 7.07 (d, $J$ = 8.53 Hz, 1H), 6.15 (s, 1H), 2.40 (d, $J$ = 4.77 Hz, 3H)
255	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)-4-fluoro- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.45ª	407.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.53 (s, 1H), 9.39 (s, 1H), 8.44 - 8.53 (m, 1H), 8.34 (s, 1H), 7.62 (d, $J$ = 8.78 Hz, 2H), 7.45 - 7.56 (m, 3H), 7.37 (d, $J$ = 8.78 Hz, 2H), 6.30 (s, 1H), 2.45 (d, $J$ = 4.77 Hz, 3H)
256	3-({6-[(4-chlorophenyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methylthio)benzenesulfonamide trifluoroacetate	2.14 <sup>a</sup>	435.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.27 - 8.30 (m, 1H), 7.81 - 7.86 (m, 1H), 7.79 (d, $J$ = 2.01 Hz, 1H), 7.56 - 7.61 (m, 1H), 7.39 - 7.45 (m, 4H), 5.85 - 5.88 (m, 1H), 2.53 - 2.59 (m, 6H)
257	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide trifluoroacetate	2.52ª	474.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.48 (d, <i>J</i> =5.02 Hz, 3 H) 6.33 (s, 1 H) 7.37 (d, <i>J</i> =9.04 Hz, 2 H) 7.52 - 7.56 (m, 1 H) 7.61 (d, <i>J</i> =9.03 Hz, 4 H) 8.32 (s, 1 H) 8.49 - 8.51 (m, 1 H) 9.30 - 9.34 (m, 1 H) 9.49 (br. s, 1 H)

258	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2 <i>R</i> )-2-(trifluoromethyl)-1-pyrrolidinyl]benzenesulfonamide trifluoroacetate	1.78ª	527.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.75 - 1.87 (m, 1 H) 1.88 - 2.00 (m, 2 H) 2.12 - 2.22 (m, 1 H) 2.42 (d, <i>J</i> =5.02 Hz, 3 H) 3.13 - 3.24 (m, 1 H) 3.56 - 3.66 (m, 1 H) 4.75 - 4.88 (m, 1 H) 5.78 (s, 1 H) 7.35 (d, <i>J</i> =9.03 Hz, 3 H) 7.42 (d, <i>J</i> =8.78 Hz, 1 H) 7.52 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.56 (d, <i>J</i> =9.03 Hz, 2 H) 7.69 (d, <i>J</i> =2.26 Hz, 1 H) 8.30 (s, 1 H) 9.09 (br. s., 1 H) 9.57 (br. s., 1 H)
259	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-pyrrolidinyl)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	2.18ª	495.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.27 - 2.38 (m, 2 H) 2.40 (s, 3 H) 3.49 (t, <i>J</i> =7.03 Hz, 2 H) 3.62 (t, <i>J</i> =13.05 Hz, 2 H) 5.62 (s, 1 H) 6.98 (d, <i>J</i> =8.78 Hz, 1 H) 7.26 - 7.33 (m, 4 H) 7.55 (d, <i>J</i> =2.26 Hz, 1 H) 7.61 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 8.18 (d, <i>J</i> =0.75 Hz, 1 H)
260	N-methyl-3-[(6-{[4-(1,3-oxazol-5-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	1.94 <sup>a</sup>	422.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.39 (s, 1H), 8.29 (s, 1H), 8.01 - 8.09 (m, 1H), 7.83 (d, $J$ = 8.53 Hz, 2H), 7.59 - 7.73 (m, 3H), 7.51 - 7.59 (m, 3H), 6.64 - 7.41 (m, 1H), 6.25 (s, 1H), 2.57 (s, 3H)
261	N-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)-4-(4-morpholinyl)benzenesulfonamide trifluoroacetate	2.00ª	455.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.24 (s, 1H), 7.97 (d, $J$ = 2.01 Hz, 1H), 7.64 (dd, $J$ = 2.13, 8.41 Hz, 1H), 7.23 - 7.32 (m, 2H), 7.17 - 7.22 (m, 2H), 7.00 (d, $J$ = 7.28 Hz, 1H), 6.11 (s, 1H), 3.73 - 3.82 (m, 4H), 2.98 - 3.05 (m, 4H), 2.51 - 2.55 (m, 3H), 2.36 (s, 3H)
262	N-methyl-4-(methyloxy)-3-[(6- {[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.29ª	454.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.77 (s, 1H), 9.02 (br. s., 1H), 8.37 (s, 1H), 8.32 (d, <i>J</i> = 1.76 Hz, 1H), 7.81 (d, <i>J</i> = 8.53 Hz, 2H), 7.66 (d, <i>J</i> = 8.78 Hz, 2H), 7.52 (dd, <i>J</i> = 2.26, 8.53 Hz, 1H), 7.33 (q, <i>J</i> = 4.94 Hz, 1H), 7.28 (d, <i>J</i> = 8.78 Hz, 1H), 6.32 (s, 1H), 3.93 (s, 3H), 2.42 (d, <i>J</i> = 4.77 Hz, 3H)

263	N-methyl-4-(methylthio)-3-[(6- {[4- (trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.33ª	470.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.32 - 8.37 (m, 1H), 7.83 - 7.87 (m, 1H), 7.82 (d, $J$ = 1.76 Hz, 1H), 7.66 - 7.72 (m, 4H), 7.56 - 7.63 (m, 1H), 6.00 (s, 1H), 2.58 (s, 6H)
264	3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methyloxy)benzenesulfonamide trifluoroacetate	2.25ª	480.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.59 (br. s., 1H), 9.14 (br. s., 1H), 8.36 (s, 1H), 8.23 (br. s., 1H), 7.72 (s, 1H), 7.55 (dd, $J$ = 2.13, 8.66 Hz, 1H), 7.34 (q, $J$ = 4.77 Hz, 1H), 7.26 - 7.31 (m, 2H), 7.07 (s, 1H), 6.20 (s, 1H), 3.93 (s, 3H), 2.42 (d, $J$ = 5.02 Hz, 3H), 2.29 (s, 3H)
265	1-{6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}- <i>N</i> -methyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	2.47ª	476.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.56 (s, 1H), 8.82 (s, 1H), 8.50 (s, 1H), 7.91 (s, 1H), 7.42 (d, $J = 7.03$ Hz, 2H), 7.30 - 7.39 (m, 2H), 7.01 (s, 1H), 6.06 (s, 1H), 4.05 (t, $J = 8.53$ Hz, 2H), 3.30 (t, $J = 8.53$ Hz, 2H), 2.42 (d, $J = 4.77$ Hz, 3H), 2.30 (s, 3H)
266	N-methyl-3-{[6-({4-[(2,2,2-trifluoroethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)thio]benzenesulfon amide trifluoroacetate	1.81 <sup>a</sup>	568.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.12 (q, <i>J</i> =10.12 Hz, 3 H) 4.73 (q, <i>J</i> =9.03 Hz, 2 H) 5.87 (s, 1 H) 7.05 (d, <i>J</i> =8.78 Hz, 2 H) 7.43 (d, <i>J</i> =9.03 Hz, 2 H) 7.53 (d, <i>J</i> =5.02 Hz, 1 H) 7.61 (s, 1 H) 7.76 (d, <i>J</i> =2.01 Hz, 1 H) 7.84 (d, <i>J</i> =8.53 Hz, 1 H) 8.23 (s, 1 H) 9.19 - 9.30 (m, 1 H) 9.40 (none, 1 H)
267	3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide trifluoroacetate	2.47ª	475.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.48 (d, <i>J</i> =5.02 Hz, 3 H) 6.32 (s, 1 H) 7.22 - 7.31 (m, 1 H) 7.39 (d, <i>J</i> =10.54 Hz, 1 H) 7.55 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.58 - 7.68 (m, 2 H) 7.78 - 7.90 (m, 1 H) 8.34 (s, 1 H) 8.49 (d, <i>J</i> =2.26 Hz, 1 H) 9.36 (s, 1 H) 9.56 (s, 1 H)

268	N-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	1.71 <sup>a</sup>	356.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.02 (s, 1H), 10.03 (s, 1H), 8.61 (s, 1H), 8.57 (d, <i>J</i> = 7.03 Hz, 2H), 8.11 - 8.18 (m, 3H), 7.93 - 7.99 (m, 1H), 7.58 (t, <i>J</i> = 8.03 Hz, 1H), 7.49 (q, <i>J</i> = 4.94 Hz, 1H), 7.42 (d, <i>J</i> = 7.78 Hz, 1H), 6.48 (s, 1H), 2.42 - 2.49 (m, 3H)
269	N-methyl-3-{[6-(3-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide	1.59ª	356.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.63 (s, 1H), 9.48 (s, 1H), 8.75 (d, <i>J</i> = 2.51 Hz, 1H), 8.37 (s, 1H), 8.19 (dd, <i>J</i> = 1.13, 4.64 Hz, 1H), 8.08 - 8.14 (m, 2H), 7.89 - 7.95 (m, 1H), 7.52 (t, <i>J</i> = 8.03 Hz, 1H), 7.45 (q, <i>J</i> = 5.02 Hz, 1H), 7.29 - 7.37 (m, 2H), 6.23 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
270	N-methyl-3-({6-[(5-methyl-3-pyridinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide	1.67ª	370.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.61 (s, 1H), 9.40 (s, 1H), 8.51 - 8.58 (m, 1H), 8.37 (s, 1H), 8.08 - 8.15 (m, 1H), 8.04 (s, 1H), 7.89 - 8.00 (m, 2H), 7.52 (t, $J = 7.91$ Hz, 1H), 7.41 - 7.48 (m, 1H), 7.34 (d, $J = 6.78$ Hz, 1H), 6.21 (s, 1H), 2.44 (d, $J = 5.02$ Hz, 3H), 2.30 (s, 3H)
271	N-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide	1.77ª	356.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.94 (br. s., 1H), 9.80 (s, 1H), 8.39 (s, 1H), 8.30 (d, $J = 3.76$ Hz, 1H), 8.23 (s, 1H), 7.94 (d, $J = 7.78$ Hz, 1H), 7.71 (t, J = 7.03 Hz, 1H), 7.40 - 7.57 (m, 4H), 7.34 (d, $J = 7.53$ Hz, 1H), 6.91 - 7.01 (m, 1H), 2.46 (d, $J = 5.02$ Hz, 3H)
272	N-methyl-5-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-3- pyridinesulfonamide	1.89ª	449.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.89 (br. s., 1H), 9.73 (br. s., 1H), 8.99 (br. s., 1H), 8.65 (br. s., 1H), 8.45 (s, 1H), 8.49 (s, 1H), 8.09 (br. s., 1H), 7.96 (br. s., 1H), 7.74 (br. s., 1H), 7.54 (br. s., 1H), 7.46 (br. s., 1H), 7.38 (br. s., 1H), 6.27 (br. s., 1H), 3.35 (br. s., 3H), 2.46 (br. s., 3H)

273	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide	1.97ª	390.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.32 (br. s., 1H), 9.97 (br. s., 1H), 8.44 (s, 1H), 8.31 (d, <i>J</i> = 2.51 Hz, 1H), 8.18 (s, 1H), 7.88 - 7.94 (m, 1H), 7.85 (dd, <i>J</i> = 2.64, 8.91 Hz, 1H), 7.51 - 7.59 (m, 2H), 7.46 (q, <i>J</i> = 4.85 Hz,
	trifluoroacetate			1H), 7.38 (d, <i>J</i> = 7.78 Hz, 1H), 7.24 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
274	N-methyl-3-{[6-(1,3-thiazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	5.50 <sup>b</sup>	363.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.42 (s, 1H), 9.83 (s, 1H), 8.50 (s, 1H), 8.14 (t, <i>J</i> = 1.76 Hz, 1H), 7.87 - 7.99 (m, 1H), 7.53 (t, <i>J</i> = 8.03 Hz, 1H), 7.44 (q, <i>J</i> = 5.02 Hz, 1H), 7.41 (d, <i>J</i> = 3.51 Hz, 1H), 7.36 (d, <i>J</i> = 7.78 Hz, 1H), 7.11 (d, <i>J</i> = 3.76 Hz, 1H), 6.53 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
275	N-methyl-3-[(6-{[5- (trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.11 <sup>a</sup>	424.9 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.57 (br. s., 1H), 9.98 (s, 1H), 8.62 (s, 1H), 8.48 (s, 1H), 8.20 (s, 1H), 8.05 - 8.12 (m, 1H), 7.93 (d, $J = 8.03$ Hz, 1H), 7.72 (d, $J = 8.78$ Hz, 1H), 7.55 (t, $J = 8.03$ Hz, 1H), 7.46 (q, $J = 4.60$ Hz, 1H), 7.35 - 7.42 (m, 2H), 2.46 (d, $J = 4.77$ Hz, 3H)
276	N-methyl-3-({6-[(5-methyl-1,3-thiazol-2-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide	5.79 <sup>b</sup>	377.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.29 (br. s., 1H), 9.84 (s, 1H), 8.46 (s, 1H), 8.14 (s, 1H), 7.88 - 7.94 (m, 1H), 7.53 (t, $J$ = 7.91 Hz, 1H), 7.45 (q, J = 4.94 Hz, 1H), 7.36 (d, $J$ = 7.78 Hz, 1H), 7.08 (s, 1H), 6.51 (s, 1H), 2.45 (d, $J$ = 5.02 Hz, 3H), 2.34 (s, 3H)
277	N-methyl-3-{[6-(1,3,4-thiadiazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide	5.63 <sup>b</sup>	364.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.84 (s, 1H), 9.93 (s, 1H), 9.07 (s, 1H), 8.52 (s, 1H), 8.11 - 8.17 (m, 1H), 7.89 - 7.96 (m, 1H), 7.54 (t, <i>J</i> = 7.91 Hz, 1H), 7.46 (q, <i>J</i> = 4.94 Hz, 1H), 7.37 (d, <i>J</i> = 7.78 Hz, 1H), 6.53 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)

278	3-{[6-(3-isoquinolinylamino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide	2.03ª	407.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz ,DMSO-d6) δ ppm 10.07 (s, 1 H), 9.74 (s, 1 H), 9.14 (s, 1 H), 8.47 (s, 1 H), 8.19 (s, 1 H), 8.22 (s, 1 H), 8.04 (d, $J = 8.3$ Hz, 1 H), 7.95 (d, $J = 8.3$ Hz, 1 H), 7.83 (d, $J = 8.5$ Hz, 1 H), 7.67 (t, $J = 7.7$ Hz, 1 H), 7.52 (t, $J = 7.9$ Hz, 1 H), 7.49 - 7.41 (m, 2 H), 7.34 (d, $J = 7.8$ Hz, 1 H), 6.96 (s, 1 H), 2.46 (br. s., 3 H)
279	N-methyl-3-{[6-(2-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide	2.02ª	407.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz ,DMSO-d6) δ ppm 10.27 (s, 1 H), 9.84 (s, 1 H), 8.44 (s, 1 H), 8.25 - 8.18 (m, 3 H), 8.10 - 8.04 (m, 1 H), 7.90 (d, <i>J</i> = 8.5 Hz, 1 H), 7.84 (d, <i>J</i> = 7.3 Hz, 1 H), 7.71 (td, <i>J</i> = 1.4, 7.6 Hz, 1 H), 7.57 (t, <i>J</i> = 8.0 Hz, 1 H), 7.50 - 7.42 (m, 3 H), 7.42 - 7.36 (m, 1 H), 2.47 (d, <i>J</i> = 5.0 Hz, 3 H)
280	N-methyl-3-{[6-(1,3-oxazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	4.79 <sup>b</sup>	347.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz ,DMSO-d6) δ ppm 11.04 (br. s., 1 H), 9.98 (br. s., 1 H), 8.41 (s, 1 H), 8.26 (s, 1 H), 7.93 (d, <i>J</i> = 8.8 Hz, 1 H), 7.80 (s, 1 H), 7.56 - 7.49 (m, 2 H), 7.44 (q, <i>J</i> = 4.8 Hz, 1 H), 7.36 (d, <i>J</i> = 7.8 Hz, 1 H), 7.12 (s, 1 H), 2.45 (d, <i>J</i> = 5.0 Hz, 3 H)
281	N-methyl-3-[(6-{[4- (trifluoromethyl)-1,3-thiazol-2- yl]amino}-4- pyrimidinyl)amino]benzenesulfo namide	1.28 <sup>d</sup>	431.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 11.89 (s, 1 H), 9.88 (s, 1 H), 8.51 (s, 1 H), 8.10 (s, 1 H), 7.88 (m, 1 H), 7.77 (s, 1 H), 7.49 (t, <i>J</i> =7.94 Hz, 1 H), 7.38 - 7.45 (m, 1 H), 7.33 (d, <i>J</i> =7.28 Hz, 1 H), 6.38 (s, 1 H), 2.41 (d, <i>J</i> =4.85 Hz, 3 H)
282	methyl (2-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-1,3- thiazol-4-yl)acetate trifluoroacetate	1.04 <sup>d</sup>	435.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.52 (br. s., 1 H), 9.81 (s, 1 H), 8.47 (s, 1 H), 8.07 - 8.14 (m, 1 H), 7.89 (dt, J=8.21, 1.19 Hz, 1 H), 7.50 (t, J=7.94 Hz, 1 H), 7.42 (q, J=4.85 Hz, 1 H), 7.33 (dd, J=8.05, 1.43 Hz, 1 H), 6.85 (s, 1 H), 6.38 (s, 1 H), 3.66 (s, 2 H), 3.60 (s, 3H), 2.43 (d, J=5.07 Hz, 3 H)

283	N-methyl-3-[(6-{[4-(1-methylethyl)-1,3-thiazol-2-yl]amino}-4-pyrimidinyl)amino]benzenesulfonamide trifluoroacetate	1.12 <sup>d</sup>	405.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.41 (br. s., 1 H), 9.79 (s, 1 H), 8.45 (s, 1 H), 8.10 (t, <i>J</i> =1.98 Hz, 1 H), 7.90 (dd, <i>J</i> =2.21, 0.88 Hz, 1 H), 7.50 (t, <i>J</i> =7.94 Hz, 1 H), 7.41 (q, <i>J</i> =5.29 Hz, 1 H), 7.29 - 7.37 (m, 1 H), 6.60 (d, <i>J</i> =1.10 Hz, 1 H), 6.43 (s, 1 H), 2.83 - 2.90 (m, 1 H), 2.43 (d, <i>J</i> =5.07 Hz, 3 H), 1.21 (d, <i>J</i> =6.84 Hz, 6 H)
284	N-methyl-3-({6-[(4-methyl-1,3-oxazol-2-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide	0.88 <sup>d</sup>	361.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 10.81 (br. s, 1H), 9.93 (s, 1 H), 8.37 (s, 1 H), 8.24 (br. s., 1 H), 7.93 (m, 1 H), 7.30-7.55 (m, 5 H), 2.43 (m, 3H), 2.08 (s, 3 H)
285	N-methyl-4-(methyloxy)-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide trifluoroacetate	1.99ª	387.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (d, <i>J</i> =5.02 Hz, 3 H) 3.93 (s, 3 H) 6.98 (br. s., 1 H) 7.12 (t, <i>J</i> =6.15 Hz, 1 H) 7.31 (d, <i>J</i> =8.78 Hz, 1 H) 7.34 - 7.40 (m, 2 H) 7.59 (dd, <i>J</i> =8.53, 2.01 Hz, 1 H) 7.88 (t, <i>J</i> =7.78 Hz, 1 H) 8.19 (br. s., 1 H) 8.34 (dd, <i>J</i> =5.02, 1.26 Hz, 1 H) 8.46 (s, 1 H) 9.53 (br. s., 1 H) 10.91 (br. s., 1 H)
286	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methyloxy)benzenesulfonamide trifluoroacetate	2.11 <sup>a</sup>	421.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (d, <i>J</i> =5.02 Hz, 3 H) 3.93 (s, 3 H) 7.18 (br. s., 1 H) 7.27 - 7.30 (m, 1 H) 7.30 - 7.34 (m, 1 H) 7.49 - 7.56 (m, 2 H) 7.85 (dd, <i>J</i> =9.03, 2.76 Hz, 1 H) 8.26 - 8.28 (m, 1 H) 8.29 - 8.31 (m, 1 H) 8.38 (s, 1 H) 9.15 (br. s., 1 H) 10.31 (br. s., 1 H)
287	3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.34 <sup>a</sup>	489.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.92 (q, <i>J</i> =8.78 Hz, 2 H) 7.05 (br. s., 1 H) 7.42 - 7.47 (m, 2 H) 7.49 (d, <i>J</i> =8.78 Hz, 1 H) 7.62 (dd, <i>J</i> =8.66, 2.13 Hz, 1 H) 7.87 (dd, <i>J</i> =8.91, 2.64 Hz, 1 H) 8.01 (d, <i>J</i> =2.01 Hz, 1 H) 8.31 (d, <i>J</i> =2.51 Hz, 1 H) 8.38 (s, 1 H) 9.47 (br. s., 1 H) 10.49 (br. s., 1 H)

288	N-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.08ª	455.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.93 (d, <i>J</i> =8.78 Hz, 2 H) 7.13 - 7.19 (m, 1 H) 7.29 - 7.34 (m, 1 H) 7.47 (d, <i>J</i> =8.78 Hz, 2 H) 7.63 - 7.68 (m, 1 H) 7.88 - 7.94 (m, 1 H) 7.94 - 7.99 (m, 1 H) 8.32 - 8.37 (m, 1 H) 8.46 (s, 1 H) 9.67 - 9.76 (m, 1 H) 10.84 - 10.98 (m, 1 H)
289	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methylthio)benzenesulfonamide trifluoroacetate	2.13ª	437.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =4.77 Hz, 3 H) 2.50 (s, 3H, obscured by solvent) 6.76 - 6.86 (m, 1 H) 7.49 (d, <i>J</i> =3.76 Hz, 2 H) 7.55 (d, <i>J</i> =8.78 Hz, 1 H) 7.69 (br. s., 2 H) 7.88 (dd, <i>J</i> =8.78, 2.01 Hz, 1 H) 8.28 (d, <i>J</i> =1.76 Hz, 1 H) 8.36 (s, 1 H) 9.60 (br. s., 1 H) 10.57 (br. s., 1 H)
290	1-{6-[(5-chloro-2- pyridinyl)amino]-4-pyrimidinyl}- <i>N</i> -methyl-2,3-dihydro-1 <i>H</i> -indole- 6-sulfonamide trifluoroacetate	2.18ª	417.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (d, <i>J</i> =4.77 Hz, 3 H) 3.31 (t, <i>J</i> =8.53 Hz, 2 H) 4.11 (t, <i>J</i> =8.66 Hz, 2 H) 7.16 (s, 1 H) 7.36 (dd, <i>J</i> =7.78, 1.51 Hz, 1 H) 7.40 - 7.48 (m, 2 H) 7.69 (d, <i>J</i> =8.78 Hz, 1 H) 7.86 (dd, <i>J</i> =8.91, 2.64 Hz, 1 H) 8.37 (d, <i>J</i> =2.51 Hz, 1 H) 8.53 (s, 1 H) 8.78 (s, 1 H) 10.36 (br. s., 1 H)
291	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-[(6-{[5- (trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.23ª	523.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.13 Hz, 3 H) 4.90 (q, <i>J</i> =8.79 Hz, 2 H) 7.23 (br. s., 1 H) 7.37 - 7.45 (m, 2 H) 7.57 (dd, <i>J</i> =8.55, 1.95 Hz, 1 H) 7.72 (d, <i>J</i> =8.79 Hz, 1 H) 8.04 - 8.09 (m, 2 H) 8.36 (s, 1 H) 8.59 (s, 1 H) 9.12 (br. s., 1 H) 10.45 (br. s., 1 H)
292	N-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	1.82ª	455.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.92 (q, <i>J</i> =8.78 Hz, 2 H) 6.24 (s, 1 H) 7.37 - 7.45 (m, 2 H) 7.55 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.60 - 7.66 (m, 2 H) 8.15 (d, <i>J</i> =2.26 Hz, 1 H) 8.32 - 8.36 (m, 3 H) 8.89 (s, 1 H) 9.66 (s, 1 H)

293	3-({6-[(3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	1.95ª	473.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.93 (q, <i>J</i> =8.70 Hz, 2 H) 7.07 (br. s., 1 H) 7.16 - 7.23 (m, 1 H) 7.43 - 7.50 (m, 2 H) 7.64 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.77 - 7.86 (m, 1 H) 8.01 (d, <i>J</i> =2.01 Hz, 1 H) 8.19 (d, <i>J</i> =4.77 Hz, 1 H) 8.42 (s, 1 H) 9.67 (br. s., 1 H) 10.14 (br. s., 1 H)
294	3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.14 <sup>a</sup>	480.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.91 (q, <i>J</i> =8.78 Hz, 2 H) 7.27 (s, 1 H) 7.39 - 7.44 (m, 2 H) 7.56 (dd, <i>J</i> =8.66, 2.38 Hz, 1 H) 7.70 (d, <i>J</i> =8.78 Hz, 1 H) 8.08 (d, <i>J</i> =2.26 Hz, 1 H) 8.11 (dd, <i>J</i> =8.91, 2.38 Hz, 1 H) 8.34 (s, 1 H) 8.69 (d, <i>J</i> =1.76 Hz, 1 H) 9.14 (s, 1 H) 10.48 (s, 1 H)
295	N-methyl-3-{[6-(4-pyrimidinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide	1.83ª	456.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =4.02 Hz, 3 H) 4.91 (q, <i>J</i> =8.62 Hz, 2 H) 7.30 (s, 1 H) 7.41 (d, <i>J</i> =8.53 Hz, 2 H) 7.55 (dd, <i>J</i> =8.66, 1.88 Hz, 1 H) 7.59 (d, <i>J</i> =6.02 Hz, 1 H) 8.10 (d, 1 H) 8.34 (s, 1 H) 8.47 (d, <i>J</i> =6.02 Hz, 1 H) 8.76 (s, 1 H) 9.08 (s, 1 H) 10.30 (s, 1 H)
296	3-({6-[(5-chloro-3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide	2.26ª	507.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.43 (s, 3 H) 4.91 (q, <i>J</i> =8.78 Hz, 2 H) 7.24 (d, <i>J</i> =0.75 Hz, 1 H) 7.38 - 7.42 (m, 2 H) 7.53 (dd, <i>J</i> =8.66, 2.38 Hz, 1 H) 8.04 (dd, <i>J</i> =10.29, 2.26 Hz, 1 H) 8.17 (d, <i>J</i> =2.26 Hz, 1 H) 8.22 (d, <i>J</i> =2.26 Hz, 1 H) 8.27 (d, <i>J</i> =0.75 Hz, 1 H) 8.92 (br. s., 1 H) 9.54 (br. s., 1 H)
297	N-methyl-4-[(2,2,2- trifluoroethyl)oxy]-3-[(6-{[6- (trifluoromethyl)-3- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide	2.53ª	523.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.50 (d, <i>J</i> =4.77 Hz, 3 H) 4.98 (q, <i>J</i> =8.78 Hz, 2 H) 6.30 (s, 1 H) 7.45 - 7.50 (m, 2 H) 7.61 (dd, <i>J</i> =8.66, 2.13 Hz, 1 H) 7.87 (d, <i>J</i> =8.53 Hz, 1 H) 8.20 (d, <i>J</i> =2.26 Hz, 1 H) 8.39 - 8.41 (m, 1 H) 8.52 (dd, <i>J</i> =8.53, 2.26 Hz, 1 H) 8.92 (d, <i>J</i> =2.26 Hz, 1 H) 8.98 (s, 1 H) 9.91 (s, 1 H)

298	3-({6-[(5-chloro-4-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.16ª	503.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.32 (s, 3 H) 2.44 (d, <i>J</i> =4.27 Hz, 3 H) 4.90 (q, <i>J</i> =8.78 Hz, 2 H) 7.19 (s, 1 H) 7.37 - 7.44 (m, 2 H) 7.49 - 7.58 (m, 2 H) 8.13 (d, <i>J</i> =2.01 Hz, 1 H) 8.21 (s, 1 H) 8.28 (s, 1 H) 8.86 (s, 1 H) 9.91 (s, 1 H)
299	3-({6-[(4,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.31ª	522.8 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =3.26 Hz, 3 H) 4.90 (q, <i>J</i> =8.95 Hz, 2 H) 7.00 (s, 1 H) 7.38 - 7.44 (m, 2 H) 7.55 (dd, <i>J</i> =8.66, 2.13 Hz, 1 H) 8.06 (s, 1 H) 8.09 (d, <i>J</i> =2.26 Hz, 1 H) 8.33 (s, 1 H) 8.42 (s, 1 H) 8.97 (s, 1 H) 10.18 (s, 1 H)
300	3-({6-[(5-chloro-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	1.69ª	503.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 2.47 (s, 3 H) 4.91 (q, <i>J</i> =8.78 Hz, 2 H) 7.12 (br. s., 1 H) 7.33 (d, <i>J</i> =8.53 Hz, 1 H) 7.42 - 7.50 (m, 2 H) 7.65 (dd, <i>J</i> =8.78, 2.26 Hz, 1 H) 7.78 (d, <i>J</i> =8.78 Hz, 1 H) 7.97 (d, <i>J</i> =2.26 Hz, 1 H) 8.39 (s, 1 H) 9.49 (br. s., 1 H) 10.42 (br. s., 1 H)
301	3-(6-(5-isopropylpyridin-2-ylamino)pyrimidin-4-ylamino)- <i>N</i> -methyl-4-(2,2,2-trifluoroethoxy)benzenesulfona mide trifluoroacetate	0.98°	497.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.19 (d, <i>J</i> =6.84 Hz, 6 H) 2.41 (d, <i>J</i> =5.07 Hz, 3 H) 2.86 - 2.96 (m, 1 H) 4.89 (q, <i>J</i> =8.82 Hz, 2 H) 6.81 (br. s., 1 H) 7.31 (d, <i>J</i> =8.60 Hz, 1 H) 7.42 (d, <i>J</i> =8.38 Hz, 2 H) 7.60 (dd, <i>J</i> =9.04, 1.98 Hz, 1 H) 7.80 (dd, <i>J</i> =8.93, 2.10 Hz, 1 H) 7.97 (d, <i>J</i> =1.98 Hz, 1 H) 8.16 (d, <i>J</i> =2.21 Hz, 1 H) 8.38 (s, 1 H) 9.51 (br. s., 1 H) 10.84 (br. s., 1 H)
302	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)-4-fluoro- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	2.03ª	409.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.46 (d, <i>J</i> =5.02 Hz, 3 H) 7.32 (s, 1 H) 7.48 - 7.54 (m, 3 H) 7.58 (d, <i>J</i> =9.03 Hz, 1 H) 7.84 (dd, <i>J</i> =8.78, 2.76 Hz, 1 H) 8.30 (d, <i>J</i> =2.76 Hz, 1 H) 8.38 (s, 1 H) 8.45 (d, <i>J</i> =7.28 Hz, 1 H) 9.59 (br. s., 1 H) 10.25 (br. s., 1 H)

303	4-fluoro- <i>N</i> -methyl-3-[(6-{[5- (trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.59ª	443.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.46 (d, <i>J</i> =4.88 Hz, 3 H) 7.44 - 7.53 (m, 4 H) 7.73 (d, <i>J</i> =8.79 Hz, 1 H) 8.06 (dd, <i>J</i> =8.91, 2.32 Hz, 1 H) 8.41 (s, 1 H) 8.46 (d, <i>J</i> =7.08 Hz, 1 H) 8.60 (s, 1 H) 9.56 (s, 1 H) 10.47 (s, 1 H)
304	4-chloro-3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methylbenzenesulfonamidetrifluoroacetate	1.53ª	425.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (500 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.46 (d, <i>J</i> =4.88 Hz, 3 H) 7.29 (s, 1 H) 7.51 (dd, <i>J</i> =8.42, 2.08 Hz, 1 H) 7.55 (d, <i>J</i> =5.13 Hz, 1 H) 7.59 (d, <i>J</i> =9.03 Hz, 1 H) 7.74 (d, <i>J</i> =8.55 Hz, 1 H) 7.81 (dd, <i>J</i> =9.03, 2.69 Hz, 1 H) 8.19 (d, <i>J</i> =2.20 Hz, 1 H) 8.27 (d, <i>J</i> =2.44 Hz, 1 H) 8.31 (s, 1 H) 9.27 (br. s., 1 H) 10.13 (s, 1 H)
305	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- (methylsulfonyl)benzenesulfona mide	2.01ª	469.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.50 (d, 3H, obscured by solvent) 3.33 9s, 3H) 7.42 (s, 1 H) 7.61 (d, <i>J</i> =9.03 Hz, 1 H) 7.68 (dd, <i>J</i> =8.28, 1.76 Hz, 1 H) 7.80 (q, <i>J</i> =4.52 Hz, 1 H) 7.84 (dd, <i>J</i> =9.03, 2.76 Hz, 1 H) 8.12 (d, <i>J</i> =8.28 Hz, 1 H) 8.31 - 8.34 (m, 1 H) 8.38 - 8.40 (m, 1 H) 8.45 - 8.48 (m, 1 H) 9.08 - 9.10 (m, 1 H) 10.26 (s, 1 H)
306	N-methyl-4-(methylsulfonyl)-3- [(6-{[5-(trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide	2.35ª	503.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- <i>d</i> <sub>4</sub> ) δ ppm 2.64 (s, 3 H) 3.22 (s, 3 H) 7.57 (d, <i>J</i> =8.78 Hz, 1 H) 7.72 (dd, <i>J</i> =8.28, 1.76 Hz, 1 H) 7.79 (d, <i>J</i> =0.75 Hz, 1 H) 7.96 (dd, <i>J</i> =8.78, 2.51 Hz, 1 H) 8.17 (d, <i>J</i> =8.28 Hz, 1 H) 8.46 (d, <i>J</i> =0.75 Hz, 1 H) 8.66 (br. s., 1 H) 8.76 (d, <i>J</i> =1.51 Hz, 1 H)
307	N-methyl-4-(methylsulfonyl)-3- {[6-(6-quinolinylamino)-4- pyrimidinyl]amino}benzenesulfo namide	0.78°	485.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 3.30 (s, 3 H) 6.43 (d, <i>J</i> =2.43 Hz, 1 H) 7.64 - 7.73 (m, 1 H) 7.75 - 7.87 (m, 2 H) 8.04 - 8.18 (m, 3 H) 8.34 - 8.47 (m, 2 H) 8.60 (d, <i>J</i> =1.54 Hz, 1 H) 8.80 (d, <i>J</i> =9.04 Hz, 1 H) 8.98 (d, <i>J</i> =4.85 Hz, 1 H) 9.11 (br. s., 1 H) 10.11 (s, 1 H)

308	3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide trifluoroacetate	1.64ª	503.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.44 (d, <i>J</i> =6.27 Hz, 3 H) 2.45 (d, <i>J</i> =4.77 Hz, 3 H) 5.37 - 5.49 (m, 1 H) 7.08 (br. s., 1 H) 7.43 (q, <i>J</i> =4.77 Hz, 1 H) 7.47 - 7.55 (m, 2 H) 7.59 (dd, <i>J</i> =8.78, 2.01 Hz, 1 H) 7.86 (dd, <i>J</i> =8.78, 2.76 Hz, 1 H) 8.05 (d, <i>J</i> =1.76 Hz, 1 H) 8.29 (d, <i>J</i> =2.76 Hz, 1 H) 8.36 (s, 1 H) 9.22 (br. s., 1 H) 10.38 (br. s., 1 H)
309	N-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	2.32ª	537.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.44 (d, <i>J</i> =6.27 Hz, 3 H) 2.44 (d, <i>J</i> =4.52 Hz, 3 H) 5.42 (dt, 1 H) 7.28 - 7.33 (m, 1 H) 7.38 - 7.45 (m, 1 H) 7.44 - 7.50 (m, 1 H) 7.51 - 7.56 (m, 1 H) 7.76 (d, <i>J</i> =9.04 Hz, 1 H) 8.05 (dd, <i>J</i> =8.91, 2.38 Hz, 1 H) 8.13 (d, <i>J</i> =2.01 Hz, 1 H) 8.33 (s, 1 H) 8.59 (s, 1 H) 8.57 - 8.62 (m, 1 H) 8.85 (s, 1 H) 10.35 (s, 1 H)
310	4-( <i>tert</i> -butylsulfonyl)- <i>N</i> -methyl-3- (6-(5-(trifluoromethyl)pyridin-2- ylamino)pyrimidin-4- ylamino)benzenesulfonamide trifluoroacetate	1.14 <sup>c</sup>	544.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.23 (s, 9 H) 2.47 (d, 3H, obscured by solvent) 7.57 (s, 1 H) 7.60 (dd, 1 H) 7.68 (d, <i>J</i> =9.04 Hz, 1 H) 7.80 (q, <i>J</i> =5.00 Hz, 1 H) 8.05 (dd, <i>J</i> =8.93, 2.54 Hz, 1 H) 8.45 (s, 1 H) 8.61 (d, <i>J</i> =1.54 Hz, 1 H) 8.66 (s, 1 H) 9.32 (s, 1 H) 10.56 (s, 1 H)
311	4-( <i>tert</i> -butylsulfonyl)-3-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)- <i>N</i> -methylbenzenesulfonamide trifluoroacetate	1.17°	511.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 1.22 (s, 9 H) 2.47 (d, 3H, obscured by solvent) 7.40 (s, 1 H) 7.55 - 7.60 (m, 2 H) 7.76 - 7.83 (m, 2 H) 7.98 (d, $J$ =8.38 Hz, 1 H) 8.32 (d, $J$ =2.43 Hz, 1 H) 8.40 (s, 1 H) 8.61 (d, $J$ =1.54 Hz, 1 H) 9.28 (s, 1 H) 10.27 (s, 1 H)
312	N-methyl-4-(propane-2-sulfonyl)-3-[6-(5-trifluoromethyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide	1.23°	530.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.15 (d, <i>J</i> =6.62 Hz, 6 H) 2.47 (d, 3H, obscured by solvent) 3.47 - 3.56 (m, 1 H) 7.51 (s, 1 H) 7.62 - 7.74 (m, 2 H) 7.80 (q, <i>J</i> =4.92 Hz, 1 H) 8.02 - 8.08 (m, 2 H) 8.43 (d, <i>J</i> =0.88 Hz, 1 H) 8.45 - 8.48 (m, 1 H) 8.63 (d, <i>J</i> =2.43 Hz, 1 H) 9.20 (br. s., 1 H) 10.60 (s, 1 H)

313	3-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]- <i>N</i> -methyl-4-(propane-2-sulfonyl)-benzenesulfonamide	1.00°	496.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.14 (d, <i>J</i> =6.62 Hz, 6 H) 2.47 (d, 3H, obscured by solvent) 3.45 - 3.54 (m, 1 H) 7.28 (s, 1 H) 7.52 (d, <i>J</i> =8.82 Hz, 1 H) 7.69 (dd, <i>J</i> =8.27, 1.65 Hz, 1 H) 7.78 (q, 1 H) 7.84 (dd, <i>J</i> =8.82, 2.65 Hz, 1 H) 8.06 (d, <i>J</i> =8.38 Hz, 1 H) 8.30 (d, <i>J</i> =2.65 Hz, 1 H) 8.39 (d, <i>J</i> =1.54 Hz, 1 H) 8.41 (s, 1 H) 9.36 (br. s., 1 H) 10.49 (br. s., 1 H)
314	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- [(trifluoromethyl)oxy]benzenesulf onamide trifluoroacetate	2.17ª	475.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.49 (d, <i>J</i> =4.77 Hz, 3 H) 7.33 (s, 1 H) 7.54 - 7.68 (m, 4 H) 7.85 (dd, <i>J</i> =8.91, 2.64 Hz, 1 H) 8.31 (d, <i>J</i> =2.26 Hz, 1 H) 8.37 (s, 1 H) 8.44 (d, <i>J</i> =2.01 Hz, 1 H) 9.62 (s, 1 H) 10.31 (br. s., 1 H)
315	1-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-yl]-3,3-dimethyl-2,3-dihydro-1 <i>H</i> -indole-6-sulfonic acid methylamide trifluoroacetate	0.98°	445.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.35 (s, 6 H) 2.40 (d, <i>J</i> =4.85 Hz, 3 H) 7.20 (br. s., 1 H) 7.34 - 7.39 (m, 2 H) 7.45 (d, <i>J</i> =7.94 Hz, 1 H) 7.62 (d, <i>J</i> =8.60 Hz, 1 H) 7.82 (dd, <i>J</i> =8.82, 2.65 Hz, 1 H) 8.35 (d, <i>J</i> =2.43 Hz, 1 H) 8.48 (s, 1 H) 8.69 (s, 1 H) 10.27 (br. s., 1 H)
316	5-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)-2-fluoro- <i>N</i> -methyl-4-(1,1,1-trifluoropropan-2-yloxy)benzenesulfonamide trifluoroacetate	0.96°	521.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 1.39 (d, $J$ =6.39 Hz, 3 H) 2.47 (d, 3 H, obscured by solvent) 5.38 - 5.47 (m, 1 H) 6.98 (br. s., 1 H) 7.52 (m, $J$ =12.13 Hz, 2 H) 7.68 (d, $J$ =4.19 Hz, 1 H) 7.81 (dd, $J$ =8.82, 2.43 Hz, 1 H) 7.87 (d, $J$ =7.72 Hz, 1 H) 8.25 (s, 1 H) 8.30 (s, 1 H) 9.19 (br. s., 1 H) 10.31 (br. s., 1 H)
317	5-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]-2-fluoro-4-methanesulfonyl- <i>N</i> -methyl-benzenesulfonamide trifluoroacetate	0.89°	487.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.57 (d, <i>J</i> =4.63 Hz, 3 H) 3.32 (s, 3 H) 7.28 - 7.31 (m, 1 H) 7.57 (d, 1 H) 7.81 (dd, <i>J</i> =8.82, 2.65 Hz, 2 H) 7.90 (d, <i>J</i> =9.04 Hz, 1 H) 8.08 (m, <i>J</i> =14.11 Hz, 1 H) 8.25 - 8.30 (m, 2 H) 8.31 - 8.33 (m, 1 H) 9.07 (br. s., 1 H) 10.25 (s, 1 H)

318	5-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-2-fluoro- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	2.10ª	507.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3 H, obscured by solvent) 4.99 (q, <i>J</i> =8.70 Hz, 2 H) 7.09 (br. s., 1 H) 7.53 (d, <i>J</i> =11.80 Hz, 1 H) 7.60 (d, <i>J</i> =8.78 Hz, 1 H) 7.77 (q, <i>J</i> =4.94 Hz, 1 H) 7.90 (dd, <i>J</i> =8.91, 2.64 Hz, 1 H) 7.97 (d, <i>J</i> =7.78 Hz, 1 H) 8.35 (d, <i>J</i> =2.51 Hz, 1 H) 8.37 (s, 1 H) 9.29 (br. s., 1 H) 10.33 (br. s., 1 H)
319	2-fluoro- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]-5-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.23ª	541.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL- $d_4$ ) δ ppm 2.65 (s, 3 H) 4.80 (q, $J$ =8.28 Hz, 2 H) 6.67 (br. s., 1 H) 7.30 (d, $J$ =8.78 Hz, 1 H) 7.37 (d, $J$ =11.29 Hz, 1 H) 8.01 - 8.05 (m, 1 H) 8.14 (dd, $J$ =8.78, 2.26 Hz, 1 H) 8.52 (s, 1 H) 8.71 (s, 1 H)
320	3-({6-[(5-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfon amide trifluoroacetate	1.50ª	473.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =5.02 Hz, 3 H) 4.92 (q, <i>J</i> =8.78 Hz, 2 H) 7.00 (br. s., 1 H) 7.41 - 7.50 (m, 3 H) 7.63 (dd, <i>J</i> =8.66, 2.13 Hz, 1 H) 7.77 (td, <i>J</i> =8.72, 3.14 Hz, 1 H) 8.00 (d, <i>J</i> =2.01 Hz, 1 H) 8.28 (d, <i>J</i> =3.26 Hz, 1 H) 8.39 (s, 1 H) 9.56 (br. s., 1 H) 10.53 (br. s., 1 H)
321	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)-4- (ethylsulfonyl)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.54ª	483.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.12 (t, <i>J</i> =7.40 Hz, 3 H) 2.47 (d, 3H, obscured by solvent) 3.41 (q, <i>J</i> =7.28 Hz, 2 H) 7.37 (br. s., 1 H) 7.60 (d, 1 H) 7.71 (dd, <i>J</i> =8.28, 1.51 Hz, 1 H) 7.80 (q, <i>J</i> =4.52 Hz, 1 H) 7.86 (dd, <i>J</i> =8.91, 2.64 Hz, 1 H) 8.10 (d, <i>J</i> =8.28 Hz, 1 H) 8.33 (d, <i>J</i> =2.51 Hz, 1 H) 8.41 (s, 1 H) 8.45 (s, 1 H) 9.21 (br. s., 1 H) 10.35 (br. s., 1 H)
322	4-(ethylsulfonyl)- <i>N</i> -methyl-3-[(6- {[5-(trifluoromethyl)-2- pyridinyl]amino}-4- pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	2.36ª	517.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.12 (t, <i>J</i> =7.28 Hz, 3 H) 2.50 (d, 3H, obscured by solvent) 3.41 (q, <i>J</i> =7.45 Hz, 2 H) 7.53 (s, 1 H) 7.69 - 7.76 (m, 2 H) 7.80 (q, <i>J</i> =4.94 Hz, 1 H) 8.07 - 8.13 (m, 2 H) 8.43 - 8.48 (m, 2 H) 8.66 (s, 1 H) 9.20 (br. s., 1 H) 10.60 (s, 1 H)

323	3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate	1.41 <sup>a</sup>	460.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.50 (d, 3H, obscured by solvent) 3.33 (s, 3 H) 7.51 (s, 1 H) 7.67 - 7.74 (m, 2 H) 7.80 (q, <i>J</i> =4.94 Hz, 1 H) 8.11 - 8.17 (m, 2 H) 8.41 - 8.45 (m, 2 H) 8.74 (d, <i>J</i> =1.76 Hz, 1 H) 9.22 (s, 1 H) 10.65 (s, 1 H)
324	3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide trifluoroacetate	1.66ª	494.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.43 (d, <i>J</i> =6.27 Hz, 3 H) 2.45 (d, <i>J</i> =5.02 Hz, 3 H) 5.36 - 5.47 (m, 1 H) 7.27 (s, 1 H) 7.42 (q, <i>J</i> =5.02 Hz, 1 H) 7.46 - 7.51 (m, 1 H) 7.55 (dd, <i>J</i> =8.53, 2.26 Hz, 1 H) 7.69 (d, <i>J</i> =8.78 Hz, 1 H) 8.09 (d, <i>J</i> =2.01 Hz, 1 H) 8.11 (dd, 1 H) 8.35 (s, 1 H) 8.69 (d, <i>J</i> =1.76 Hz, 1 H) 9.06 (br. s., 1 H) 10.52 (s, 1 H)
325	2-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-1,3- thiazole-5-carboxylic acid	5.65 <sup>b</sup>	407.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 11.33 (br. s., 1H), 9.85 (s, 1H), 8.50 (s, 1H), 8.11 - 8.22 (m, 1H), 7.89 - 8.00 (m, 1H), 7.52 (t, <i>J</i> = 8.03 Hz, 2H), 7.45 (q, <i>J</i> = 4.94 Hz, 1H), 7.35 (d, <i>J</i> = 7.78 Hz, 1H), 6.59 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
326	(2-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-1,3- thiazol-4-yl)acetic acid	0.99 <sup>d</sup>	421.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 11.59 (br. s., 1 H), 9.89 (br. s., 1 H), 8.48 (s, 1 H), 8.10 (br. s., 1 H), 7.87 (m, 1 H), 7.50 (m, 1 H), 7.43 (m, 1H), 7.35 (m, 1 H), 6.83 (s, 1 H), 6.44 (s, 1 H), 3.56 (s, 2H), 2.39 - 2.45 (m, 3 H)
327	1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}- <i>N</i> -methyl-1 <i>H</i> -indole-6-sulfonamide trifluoroacetate	2.91 <sup>a</sup>	414.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.41 (d, <i>J</i> =5.02 Hz, 3 H) 6.95 - 6.99 (m, 2 H) 7.40 - 7.47 (m, 3 H) 7.62 (dd, <i>J</i> =8.28, 1.51 Hz, 1 H) 7.75 (d, <i>J</i> =8.78 Hz, 2 H) 7.87 (d, <i>J</i> =8.28 Hz, 1 H) 8.19 (d, <i>J</i> =3.76 Hz, 1 H) 8.74 (s, 1 H) 8.97 (s, 1 H) 10.00 (s, 1 H)
328	3-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}- <i>N</i> -methyl-2-oxo-2,3-dihydro-1 <i>H</i> -benzimidazole-5-sulfonamide trifluoroacetate	2.59ª	431.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.46 (d, <i>J</i> =5.02 Hz, 3 H) 7.32 (d, 1 H) 7.43 - 7.50 (m, 3 H) 7.66 (dd, <i>J</i> =8.03, 1.76 Hz, 1 H) 7.83 (d, <i>J</i> =7.78 Hz, 3 H) 8.79 (s, 1 H) 8.81 (d, <i>J</i> =1.51 Hz, 1 H) 10.11 (s, 1 H) 12.00 (s, 1 H)

329	3-{[6-({3-[6-(dimethylamino)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide	1.60 <sup>c</sup>	476.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.55 (s, 1H), 9.29 (s, 1H), 8.39 - 8.46 (m, 1H), 8.35 (s, 1H), 8.10 (br. s., 1H), 7.93 (d, $J = 7.78$ Hz, 1H), 7.80 (dd, $J = 2.26$ , 8.78 Hz, 1H), 7.74 (br. s., 1H), 7.45 - 7.54 (m, 2H), 7.39 - 7.45 (m, 1H), 7.30 - 7.39 (m, 2H), 7.23 (d, $J = 7.53$ Hz, 1H), 6.75 (d, $J = 8.78$ Hz, 1H), 6.25 (s, 1H), 3.08 (s, 6H), 2.45 (d, $J = 5.02$ Hz, 3H)
330	N-methyl-3-({6-[(5-methyl-3-biphenylyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide trifluoroacetate	2.31ª	446.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.82 (br. s., 1H), 9.59 (br. s., 1H), 8.41 (s, 1H), 8.04 (br. s., 1H), 7.89 (d, $J =$ 7.78 Hz, 1H), 7.65 (d, $J =$ 7.53 Hz, 2H), 7.43 - 7.61 (m, 5H), 7.33 - 7.43 (m, 3H), 7.21 (br. s., 1H), 6.24 (s, 1H), 2.42 - 2.47 (m, 3H), 2.39 (s, 3H)
331	N-methyl-3-[(6-{[3-methyl-5-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfo namide trifluoroacetate	1.88ª	447.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.72 (s, 1H), 9.54 (s, 1H), 9.02 (br. s., 1H), 8.72 (d, $J$ = 4.27 Hz, 1H), 8.39 (s, 1H), 8.36 (d, $J$ = 7.78 Hz, 1H), 8.07 (s, 1H), 7.90 - 7.96 (m, 1H), 7.73 - 7.80 (m, 2H), 7.53 (t, $J$ = 8.03 Hz, 1H), 7.43 - 7.49 (m, 2H), 7.36 (d, $J$ = 7.78 Hz, 1H), 7.28 (s, 1H), 6.25 (s, 1H), 2.44 (d, $J$ = 4.77 Hz, 3H), 2.40 (s, 3H)
332	3-[(6-{[3'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide	1.72 <sup>c</sup>	475.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.55 (s, 1H), 9.32 (s, 1H), 8.35 (s, 1H), 8.11 (s, 1H), 7.92 (d, <i>J</i> = 8.03 Hz, 1H), 7.76 (s, 1H), 7.60 (d, <i>J</i> = 8.03 Hz, 1H), 7.50 (t, <i>J</i> = 8.03 Hz, 1H), 7.35 - 7.45 (m, 2H), 7.32 (d, <i>J</i> = 7.78 Hz, 1H), 7.24 - 7.30 (m, 2H), 6.89 - 6.94 (m, 2H), 6.72 - 6.78 (m, 1H), 6.24 (s, 1H), 2.97 (s, 6H), 2.45 (d, <i>J</i> = 3.76 Hz, 3H)

333	N-methyl-3-[(6-{[4'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	1.60°	517.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.80 (s, 1H), 9.54 (s, 1H), 8.58 (s, 1H), 8.33 (s, 1H), 8.16 (d, <i>J</i> = 8.78 Hz, 1H), 7.98 (br. s., 1H), 7.70 - 7.81 (m, 4H), 7.66 (q, <i>J</i> = 4.60 Hz, 1H), 7.53 - 7.63 (m, 2H), 7.47 (d, <i>J</i> = 7.28 Hz, 1H), 7.28 (d, <i>J</i> = 8.78 Hz, 2H), 6.48 (s, 1H), 3.96 - 4.03 (m, 4H), 3.37 - 3.45 (m, 4H), 2.68 (d, <i>J</i> = 5.02 Hz, 3H)
334	N-methyl-3-{[6-({3-[6- (methyloxy)-3- pyridinyl]phenyl}amino)-4- pyrimidinyl]amino}benzenesulfo namide	1.60°	463.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.56 (s, 1H), 9.36 (s, 1H), 8.47 (d, $J$ = 2.01 Hz, 1H), 8.36 (s, 1H), 8.09 (s, 1H), 7.99 (dd, $J$ = 2.51, 8.53 Hz, 1H), 7.93 (d, $J$ = 8.28 Hz, 1H), 7.81 (s, 1H), 7.57 (d, $J$ = 7.53 Hz, 1H), 7.51 (t, $J$ = 8.03 Hz, 1H), 7.36 - 7.46 (m, 2H), 7.33 (d, $J$ = 7.53 Hz, 1H), 7.28 (d, $J$ = 7.53 Hz, 1H), 6.94 (d, $J$ = 8.78 Hz, 1H), 6.25 (s, 1H), 3.91 (s, 3H), 2.44 (d, $J$ = 5.02 Hz, 3H)
335	3'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-4- biphenylcarboxamide	1.42°	475.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.59 (s, 1H), 9.39 (s, 1H), 8.36 (s, 1H), 8.10 (s, 1H), 8.03 (br. s., 1H), 7.98 (d, <i>J</i> = 8.03 Hz, 2H), 7.93 (d, <i>J</i> = 8.03 Hz, 1H), 7.88 (s, 1H), 7.73 (d, <i>J</i> = 8.03 Hz, 2H), 7.64 (d, <i>J</i> = 8.03 Hz, 1H), 7.29 - 7.54 (m, 6H), 6.25 (s, 1H), 2.44 (s, 3H)
336	N-methyl-3-{[6-({3-[5- (methyloxy)-3- pyridinyl]phenyl}amino)-4- pyrimidinyl]amino}benzenesulfo namide	1.51°	463.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.57 (s, 1H), 9.39 (s, 1H), 8.47 (d, $J$ = 1.76 Hz, 1H), 8.37 (s, 1H), 8.32 (d, $J$ = 3.26 Hz, 1H), 8.10 (s, 1H), 7.93 (dd, $J$ = 1.51, 8.28 Hz, 1H), 7.87 (s, 1H), 7.67 (d, $J$ = 8.03 Hz, 1H), 7.57 - 7.61 (m, 1H), 7.39 - 7.54 (m, 3H), 7.31 - 7.39 (m, 2H), 6.26 (s, 1H), 3.92 (s, 3H), 2.45 (d, $J$ = 5.02 Hz, 3H)

337	3'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-3- biphenylcarboxamide	1.41°	475.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.56 (s, 1H), 9.37 (s, 1H), 8.36 (s, 1H), 8.16 (s, 1H), 8.10 (d, $J$ = 1.76 Hz, 2H), 7.92 (dd, $J$ = 1.51, 8.28 Hz, 1H), 7.88 (d, $J$ = 7.78 Hz, 1H), 7.84 (s, 1H), 7.80 (d, $J$ = 7.78 Hz, 1H), 7.67 (d, $J$ = 8.03 Hz, 1H), 7.57 (t, $J$ = 7.65 Hz, 1H), 7.50 (t, $J$ = 8.03 Hz, 1H), 7.39 - 7.47 (m, 3H), 7.33 (d, $J$ = 8.03 Hz, 1H), 6.24 (s, 1H), 7.36 (d, $J$ = 8.03 Hz, 1H), 6.24 (s, 1H), 2.42 - 2.48 (m, 3H)
338	N-methyl-3-{[6-({3'- [(methylsulfonyl)amino]-3- biphenylyl}amino)-4- pyrimidinyl]amino}benzenesulfo namide	1.49°	525.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.86 (s, 1H), 9.56 (s, 1H), 9.39 (s, 1H), 8.36 (s, 1H), 8.10 (t, <i>J</i> = 1.76 Hz, 1H), 7.92 (dd, <i>J</i> = 1.51, 8.03 Hz, 1H), 7.81 (s, 1H), 7.63 (d, <i>J</i> = 8.03 Hz, 1H), 7.36 - 7.54 (m, 6H), 7.33 (d, <i>J</i> = 7.78 Hz, 1H), 7.23 (d, <i>J</i> = 7.78 Hz, 2H), 6.24 (s, 1H), 3.05 (s, 3H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
339	3-[(6-{[4'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide	1.68°	475.2 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.54 (s, 1H), 9.26 (s, 1H), 8.34 (s, 1H), 8.10 (s, 1H), 7.92 (d, <i>J</i> = 8.28 Hz, 1H), 7.71 (s, 1H), 7.44 - 7.54 (m, 4H), 7.41 (br. s., 1H), 7.30 - 7.38 (m, 2H), 7.21 (s, 1H), 6.82 (d, <i>J</i> = 8.53 Hz, 2H), 6.24 (s, 1H), 2.95 (s, 6H), 2.42 - 2.47 (m, 3H)
340	N-methyl-3-{[6-({3-[4- (methyloxy)-3- pyridinyl]phenyl}amino)-4- pyrimidinyl]amino}benzenesulfo namide	1.46°	463.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.52 (d, $J$ = 6.02 Hz, 1H), 8.46 (br. s., 1H), 8.29 (s, 1H), 8.08 - 8.20 (m, 1H), 7.68 - 7.77 (m, 1H), 7.62 - 7.68 (m, 1H), 7.39 - 7.58 (m, 4H), 7.35 (d, $J$ = 6.27 Hz, 1H), 7.26 (d, $J$ = 7.53 Hz, 1H), 6.25 (s, 1H), 4.02 (s, 3H), 2.57 (s, 3H)

341	N-(3'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-4- biphenylyl)acetamide	1.45°	489.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.03 (s, 1H), 9.54 (s, 1H), 9.31 (s, 1H), 8.34 (s, 1H), 8.09 (t, <i>J</i> = 1.88 Hz, 1H), 7.88 - 7.93 (m, 1H), 7.76 (s, 1H), 7.67 (d, <i>J</i> = 8.53 Hz, 2H), 7.58 (d, <i>J</i> = 8.78 Hz, 2H), 7.54 (d, <i>J</i> = 8.28 Hz, 1H), 7.49 (t, <i>J</i> = 8.03 Hz, 1H), 7.34 - 7.44 (m, 2H), 7.31 (d, <i>J</i> = 8.28 Hz, 1H), 7.25 (d, <i>J</i> = 7.78 Hz, 1H), 6.23 (s, 1H), 2.43 (d, <i>J</i> = 4.77 Hz, 3H), 2.06 (s, 3H)
342	N-methyl-3-{[6-({4'- [(methylsulfonyl)amino]-3- biphenylyl}amino)-4- pyrimidinyl]amino}benzenesulfo namide	1.48 <sup>c</sup>	525.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.87 (br. s., 1H), 9.56 (s, 1H), 9.34 (s, 1H), 8.35 (s, 1H), 8.10 (s, 1H), 7.93 (d, $J = 8.03$ Hz, 1H), 7.79 (s, 1H), 7.62 (d, $J = 8.28$ Hz, 2H), 7.55 (d, $J = 7.53$ Hz, 1H), 7.50 (t, $J = 8.03$ Hz, 1H), 7.36 - 7.45 (m, 2H), 7.22 - 7.36 (m, 4H), 6.24 (s, 1H), 3.03 (s, 3H), 2.44 (d, $J = 4.77$ Hz, 3H)
343	N-(3'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-3- biphenylyl)acetamide	1.50°	489.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.03 (br. s., 1H), 9.54 (s, 1H), 9.37 (s, 1H), 8.36 (s, 1H), 8.10 (br. s., 1H), 7.92 (br. s., 2H), 7.78 (br. s., 1H), 7.61 (d, <i>J</i> = 7.78 Hz, 1H), 7.56 (d, <i>J</i> = 8.03 Hz, 1H), 7.50 (t, <i>J</i> = 7.91 Hz, 1H), 7.36 - 7.45 (m, 3H), 7.29 - 7.36 (m, 2H), 7.22 (d, <i>J</i> = 7.78 Hz, 1H), 6.24 (s, 1H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H), 2.08 (s, 3H)
344	N-methyl-3'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-4- biphenylsulfonamide	1.52°	525.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.57 (s, 1H), 9.41 (s, 1H), 8.37 (s, 1H), 8.10 (s, 1H), 7.93 (br. s., 3H), 7.88 (s, 3H), 7.66 (d, <i>J</i> = 7.53 Hz, 1H), 7.47 - 7.55 (m, 2H), 7.40 - 7.47 (m, 2H), 7.30 - 7.40 (m, 2H), 6.25 (s, 1H), 2.46 (dd, <i>J</i> = 5.02, 7.03 Hz, 6H)

345	N-methyl-3'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-3- biphenylsulfonamide	1.53°	525.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.31 (s, 1H), 8.12 - 8.16 (m, 1H), 8.08 - 8.12 (m, 1H), 7.90 - 7.96 (m, 1H), 7.82 - 7.88 (m, 1H), 7.78 - 7.82 (m, 1H), 7.64 - 7.76 (m, 2H), 7.44 - 7.56 (m, 4H), 7.37 - 7.43 (m, 1H), 6.25 (s, 1H), 2.58 - 2.61 (m, 3H), 2.55 - 2.58 (m, 3H)
346	3-[(6-{[4-chloro-3-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide	1.55°	466.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.58 (s, 1H), 9.50 (s, 1H), 8.60 - 8.68 (m, 2H), 8.35 (s, 1H), 8.07 (s, 1H), 7.86 - 7.94 (m, 2H), 7.69 - 7.75 (m, 2H), 7.47 - 7.56 (m, 3H), 7.41 (q, <i>J</i> = 4.94 Hz, 1H), 7.33 (d, <i>J</i> = 8.03 Hz, 1H), 6.21 (s, 1H), 2.44 (d, <i>J</i> = 4.77 Hz, 3H)
347	2'-chloro-5'-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}-3- biphenylcarboxamide	1.50°	509.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.57 (s, 1H), 9.47 (s, 1H), 8.35 (s, 1H), 8.02 - 8.10 (m, 2H), 7.87 - 7.97 (m, 3H), 7.67 - 7.75 (m, 2H), 7.55 - 7.63 (m, 2H), 7.47 - 7.55 (m, 2H), 7.36 - 7.44 (m, 2H), 7.33 (d, <i>J</i> = 7.53 Hz, 1H), 6.20 (s, 1H), 2.44 (d, <i>J</i> = 4.77 Hz, 3H)
348	3-[(6-{[6-chloro-3'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]- <i>N</i> -methylbenzenesulfonamide	1.69°	551.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.56 (s, 1H), 9.42 (s, 1H), 8.34 (s, 1H), 8.08 (s, 1H), 7.87 - 7.95 (m, 1H), 7.62 - 7.70 (m, 2H), 7.50 (t, <i>J</i> = 8.03 Hz, 1H), 7.45 (d, <i>J</i> = 8.53 Hz, 1H), 7.38 - 7.43 (m, 1H), 7.29 - 7.36 (m, 2H), 6.94 - 7.03 (m, 2H), 6.87 (d, <i>J</i> = 7.28 Hz, 1H), 6.20 (s, 1H), 3.71 - 3.78 (m, 4H), 3.12 - 3.19 (m, 4H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
349	4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzoic acid	1.93ª	400.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.31 (br. s., 1H), 10.23 (br. s., 1H), 8.48 (s, 1H), 8.08 (br. s., 1H), 7.83 - 7.94 (m, 3H), 7.75 (d, <i>J</i> = 8.28 Hz, 2H), 7.57 (t, <i>J</i> = 7.65 Hz, 2H), 7.43 (d, <i>J</i> = 7.53 Hz, 1H), 6.49 (s, 1H), 2.45 (br. s., 3H)

350	[(3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)- pyrimidinyl]amino}phenyl)oxy]ac etic acid	5.05 <sup>b</sup>	430.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 13.02 (br. s., 1H), 9.58 (s, 1H), 9.29 (s, 1H), 8.35 (s, 1H), 8.10 (t, <i>J</i> = 1.76 Hz, 1H), 7.89 - 7.94 (m, 1H), 7.51 (t, <i>J</i> = 7.91 Hz, 1H), 7.44 (q, <i>J</i> = 5.02 Hz, 1H), 7.33 (d, <i>J</i> = 8.03 Hz, 1H), 7.26 (s, 1H), 7.21 (t, <i>J</i> = 8.16 Hz, 1H), 7.14 (d, <i>J</i> = 8.78 Hz, 1H), 6.54 (dd, <i>J</i> = 1.76, 8.03 Hz, 1H), 6.22 (s, 1H), 4.65 (s, 2H), 2.45 (d, <i>J</i> = 5.02 Hz, 3H)
351	N,N-dimethyl-4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide	1.36°	427.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.65 (s, 1H), 9.53 (s, 1H), 8.44 (s, 1H), 8.17 (s, 1H), 7.98 (d, $J$ = 8.28 Hz, 1H), 7.72 (d, $J$ = 8.53 Hz, 2H), 7.58 (t, $J$ = 7.91 Hz, 1H), 7.36 - 7.52 (m, 4H), 6.31 (s, 1H), 3.03 (s, 6H), 2.51 (d, $J$ = 5.02 Hz, 3H)
352	N,N-dimethyl-2-[(3-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}phenyl)oxy]ac etamide trifluoroacetate	5.15 <sup>b</sup>	457.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.70 (br. s., 1H), 9.40 (br. s., 1H), 8.37 (s, 1H), 8.08 (s, 1H), 7.86 - 7.92 (m, 1H), 7.53 (t, <i>J</i> = 7.91 Hz, 1H), 7.45 (q, <i>J</i> = 4.77 Hz, 1H), 7.36 (d, <i>J</i> = 7.28 Hz, 1H), 7.18 - 7.26 (m, 2H), 7.09 (d, <i>J</i> = 8.03 Hz, 1H), 6.57 - 6.62 (m, 1H), 6.21 (s, 1H), 4.79 (s, 2H), 3.02 (s, 3H), 2.86 (s, 3H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
353	N-(2-hydroxyethyl)-4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide	0.96°	443.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.57 (s, 1H), 9.49 (s, 1H), 8.38 (s, 1H), 8.22 (t, $J = 5.40$ Hz, 1H), 8.09 (s, 1H), 7.91 (d, $J = 8.03$ Hz, 1H), 7.80 (d, $J = 8.53$ Hz, 2H), 7.67 (d, $J = 8.78$ Hz, 2H), 7.51 (t, $J = 7.91$ Hz, 1H), 7.39 (q, $J = 4.43$ Hz, 1H), 7.33 (d, $J = 7.53$ Hz, 1H), 6.25 (s, 1H), 4.68 (t, $J = 5.40$ Hz, 1H), 3.50 (q, $J = 5.69$ Hz, 2H), 3.30 - 3.36 (m, 2H), 2.44 (d, $J = 5.02$ Hz, 3H)

354	N-methyl-3-{[6-({4-[(4-methyl-1-piperazinyl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide	0.86°	482.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.60 (s, 1H), 9.49 (s, 1H), 8.38 (s, 1H), 8.09 - 8.13 (m, 1H), 7.89 - 7.95 (m, 1H), 7.67 (d, $J = 8.53$ Hz, 2H), 7.52 (t, $J = 7.91$ Hz, 1H), 7.43 (q, $J = 4.77$ Hz, 1H), 7.32 - 7.38 (m, 3H), 6.25 (s, 1H), 3.50 (br. s., 4H), 2.45 (d, $J = 4.77$ Hz, 3H), 2.32 (br. s., 4H), 2.20 (s, 3H)
355	4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}- <i>N</i> -(1- methyl-4-piperidinyl)benzamide	1.32°	496.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.60 (s, 1H), 9.52 (s, 1H), 8.39 (s, 1H), 8.08 - 8.11 (m, 1H), 8.04 (d, $J = 7.53$ Hz, 1H), 7.89 - 7.95 (m, 1H), 7.80 (d, $J = 8.78$ Hz, 2H), 7.67 (d, $J = 8.78$ Hz, 2H), 7.51 (t, $J = 8.03$ Hz, 1H), 7.39 - 7.47 (m, 1H), 7.34 (d, $J = 8.28$ Hz, 1H), 6.25 (s, 1H), 3.65 - 3.78 (m, 1H), 2.71 - 2.82 (m, 2H), 2.44 (d, $J = 4.77$ Hz, 3H), 2.16 (s, 3H), 1.88 - 1.98 (m, 2H), 1.70 - 1.80 (m, 2H), 1.51 - 1.64 (m, 2H)
356	N-methyl-3-[(6-{[4-(1-piperazinylcarbonyl)phenyl]amin o}-4-pyrimidinyl)amino]benzenesulfo namide	1.26°	468.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.58 (s, 1H), 9.46 (s, 1H), 8.36 (s, 1H), 8.09 (s, 1H), 7.90 (dd, <i>J</i> = 1.63, 8.16 Hz, 1H), 7.65 (d, <i>J</i> = 8.53 Hz, 2H), 7.50 (t, <i>J</i> = 7.91 Hz, 1H), 7.39 - 7.45 (m, 1H), 7.33 (d, <i>J</i> = 8.53 Hz, 3H), 6.23 (s, 1H), 3.41 (br. s., 4H), 2.69 (br. s., 4H), 2.43 (d, <i>J</i> = 4.77 Hz, 3H)
357	N-methyl-3-[(6-{[4-({4-[2-(methyloxy)ethyl]-1-piperazinyl}carbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	1.35°	526.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, METHANOL-d4) δ ppm 8.29 - 8.35 (m, 1H), 8.12 - 8.18 (m, 1H), 7.70 - 7.77 (m, 1H), 7.59 - 7.65 (m, 2H), 7.45 - 7.56 (m, 2H), 7.38 - 7.45 (m, 2H), 6.24 - 6.30 (m, 1H), 3.75 (br. s., 2H), 3.49 - 3.70 (m, 4H), 3.35 - 3.38 (m, 3H), 2.51 - 2.69 (m, 9H)

358	4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}- <i>N</i> -[2- (methyloxy)ethyl]benzamide	1.36°	457.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.57 (s, 1H), 9.50 (s, 1H), 8.38 (s, 1H), 8.31 (t, <i>J</i> = 5.27 Hz, 1H), 8.08 (s, 1H), 7.89 - 7.94 (m, 1H), 7.80 (d, <i>J</i> = 8.78 Hz, 2H), 7.67 (d, <i>J</i> = 8.78 Hz, 2H), 7.51 (t, <i>J</i> = 8.03 Hz, 1H), 7.39 (q, <i>J</i> = 5.02 Hz, 1H), 7.33 (d, <i>J</i> = 7.78 Hz, 1H), 6.25 (s, 1H), 3.36 - 3.48 (m, 4H), 3.26 (s, 3H), 2.44 (d, <i>J</i> = 5.02 Hz, 3H)
359	4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4-pyrimidinyl]amino}- <i>N</i> -[3- (methyloxy)propyl]benzamide	1.06°	471.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.59 (s, 1H), 9.51 (s, 1H), 8.38 (s, 1H), 8.27 (t, $J = 5.65$ Hz, 1H), 8.09 (s, 1H), 7.91 (d, $J = 8.03$ Hz, 1H), 7.78 (d, $J = 8.78$ Hz, 2H), 7.67 (d, $J = 8.78$ Hz, 2H), 7.51 (t, $J = 8.03$ Hz, 1H), 7.41 (q, $J = 4.94$ Hz, 1H), 7.33 (d, $J = 7.78$ Hz, 1H), 6.24 (s, 1H), 3.36 (t, $J = 6.40$ Hz, 2H), 3.25 - 3.30 (m, 2H), 3.23 (s, 3H), 2.44 (d, $J = 5.02$ Hz, 3H), 1.74 (t, 2H)
360	N-[2-(dimethylamino)ethyl]-4-{[6- ({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide	1.33°	470.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.59 (s, 1H), 9.53 (s, 1H), 8.38 (s, 1H), 8.25 (t, <i>J</i> = 4.77 Hz, 1H), 8.09 (s, 1H), 7.87 - 7.94 (m, 1H), 7.79 (d, <i>J</i> = 8.78 Hz, 2H), 7.68 (d, <i>J</i> = 8.78 Hz, 2H), 7.51 (t, <i>J</i> = 8.03 Hz, 1H), 7.40 (q, <i>J</i> = 4.68 Hz, 1H), 7.33 (d, <i>J</i> = 7.78 Hz, 1H), 6.26 (s, 1H), 3.39 (q, <i>J</i> = 6.36 Hz, 2H), 2.57 (br. s., 2H), 2.44 (d, <i>J</i> = 4.77 Hz, 3H), 2.31 (br. s., 6H)
361	N,N-diethyl-4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}benzamide	1.12°	455.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.59 (s, 1H), 9.46 (s, 1H), 8.38 (s, 1H), 8.11 (s, 1H), 7.92 (d, $J = 8.03$ Hz, 1H), 7.66 (d, $J = 8.53$ Hz, 2H), 7.52 (t, $J = 7.91$ Hz, 1H), 7.43 (q, $J = 4.77$ Hz, 1H), 7.27 - 7.37 (m, 3H), 6.24 (s, 1H), 3.33 (s, 4H), 2.45 (d, $J = 4.77$ Hz, 3H), 1.07 - 1.17 (m, 6H)

362	N-methyl-3-[(6-{[4-(1-pyrrolidinylcarbonyl)phenyl]amin o}- pyrimidinyl)amino]benzenesulfo namide	1.05°	453.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.62 (s, 1H), 9.52 (s, 1H), 8.38 (s, 1H), 8.12 (s, 1H), 7.87 - 7.95 (m, 1H), 7.67 (d, <i>J</i> = 8.78 Hz, 2H), 7.47 - 7.56 (m, 3H), 7.44 (q, <i>J</i> = 4.85 Hz, 1H), 7.34 (d, <i>J</i> = 7.78 Hz, 1H), 6.27 (s, 1H), 3.46 (t, <i>J</i> = 6.40 Hz, 4H), 2.45 (d, <i>J</i> = 4.77 Hz, 3H), 1.83 (br. s., 4H)
363	3-({6-[(4-{[(3S)-3- (dimethylamino)-1- pyrrolidinyl]carbonyl}phenyl)ami no]-4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide	1.35°	496.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.61 (s, 1H), 9.51 (br. s., 1H), 8.38 (s, 1H), 8.11 (s, 1H), 7.92 (d, <i>J</i> = 8.03 Hz, 1H), 7.67 (d, <i>J</i> = 6.53 Hz, 2H), 7.47 - 7.56 (m, 3H), 7.44 (br. s., 1H), 7.34 (d, <i>J</i> = 7.78 Hz, 1H), 6.25 (s, 1H), 3.39 - 3.77 (m, 3H), 3.16 - 3.27 (m, 1H), 2.56 - 2.78 (m, 1H), 2.45 (s, 3H), 2.19 (br. s., 3H), 2.00 - 2.16 (m, 4H), 1.63 - 1.81 (m, 1H)
364	N-methyl-3-{[6-({4-[(4- methylhexahydro-1 <i>H</i> -1,4- diazepin-1- yl)carbonyl]phenyl}amino)-4- pyrimidinyl]amino}benzenesulfo namide	1.33°	496.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.60 (br. s., 1H), 9.47 (s, 1H), 8.37 (s, 1H), 8.11 (br. s., 1H), 7.91 (d, $J$ = 7.53 Hz, 1H), 7.65 (d, $J$ = 8.28 Hz, 2H), 7.51 (t, $J$ = 7.91 Hz, 1H), 7.43 (br. s., 1H), 7.34 (d, $J$ = 7.78 Hz, 3H), 6.24 (s, 1H), 3.60 (br. s., 2H), 3.46 (br. s., 2H), 2.62 (m, 4H), 2.45 (s, 3H), 2.21 - 2.31 (m, 3H), 1.84 (br. s., 1H), 1.76 (br. s., 1H)
365	N-methyl-3-[(6-{[4-(4-thiomorpholinylcarbonyl)phenyl] amino}-4-pyrimidinyl)amino]benzenesulfo namide	1.09°	485.1 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.66 (s, 1H), 9.56 (s, 1H), 8.44 (s, 1H), 8.17 (s, 1H), 7.95 - 8.01 (m, 1H), 7.74 (d, <i>J</i> = 8.53 Hz, 2H), 7.58 (t, <i>J</i> = 8.03 Hz, 1H), 7.49 (q, <i>J</i> = 4.77 Hz, 1H), 7.37 - 7.46 (m, 3H), 6.31 (s, 1H), 3.80 (br. s., 4H), 2.71 (br. s., 4H), 2.51 (d, <i>J</i> = 5.02 Hz, 3H)

366	3-{[6-({4-[(4,4-difluoro-1-piperidinyl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}- <i>N</i> -methylbenzenesulfonamide	1.47°	503.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.60 (s, 1H), 9.51 (s, 1H), 8.38 (s, 1H), 8.11 (s, 1H), 7.88 - 7.95 (m, 1H), 7.69 (d, $J = 8.53$ Hz, 2H), 7.52 (t, $J = 8.03$ Hz, 1H), 7.38 - 7.47 (m, 3H), 7.34 (d, $J = 7.78$ Hz, 1H), 6.25 (s, 1H), 3.61 (br. s., 4H), 2.45 (d, $J = 5.02$ Hz, 3H), 1.96 - 2.12 (m, 4H)
367	3-({6-[(4-{[(3R)-3- (dimethylamino)-1- pyrrolidinyl]carbonyl}phenyl)ami no]-4-pyrimidinyl}amino)-N- methylbenzenesulfonamide	1.32°	496.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.51 (s, 1H), 9.42 (br. s., 1H), 8.29 (s, 1H), 8.01 (s, 1H), 7.79 - 7.86 (m, 1H), 7.58 (d, $J$ = 7.53 Hz, 2H), 7.36 - 7.47 (m, 3H), 7.33 (q, $J$ = 4.77 Hz, 1H), 7.24 (d, $J$ = 7.78 Hz, 1H), 6.17 (s, 1H), 3.07 - 3.66 (m, 4H), 2.48 - 2.69 (m, 1H), 2.35 (d, $J$ = 4.77 Hz, 3H), 2.10 (br. s., 3H), 1.87 - 2.06 (m, 4H), 1.53 - 1.72 (m, 1H)
368	N-[2-(dimethylamino)ethyl]-N-methyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide	1.31°	484.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 10.14 (br. s., 2H), 8.75 (t, <i>J</i> = 5.65 Hz, 1H), 8.48 (s, 1H), 8.03 (s, 1H), 7.81 - 7.93 (m, 3H), 7.67 (d, <i>J</i> = 8.53 Hz, 2H), 7.57 (t, <i>J</i> = 7.91 Hz, 1H), 7.48 - 7.54 (m, 1H), 7.44 (d, <i>J</i> = 7.78 Hz, 1H), 6.37 (s, 1H), 3.92 (d, <i>J</i> = 5.52 Hz, 2H), 2.42 - 2.48 (m, 3H)
369	N-[2-(dimethylamino)ethyl]-N-methyl-4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzamidetrifluoroacetate	1.76ª	530.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.44 (d, <i>J</i> =4.77 Hz, 3 H) 2.47 (s, 3H, obscured by solvent) 2.99 (s, 3 H) 3.17 (s, 3 H) 3.36 (d, <i>J</i> =5.52 Hz, 2 H) 3.70 - 3.81 (m, 2 H) 5.89 (s, 1 H) 7.42 - 7.56 (m, 4 H) 7.62 - 7.70 (m, 4 H) 8.31 (s, 1 H) 9.21 - 9.25 (m, 1 H) 9.72 (s, 1 H)
370	N-[(4-{[6-({3- [(methylamino)sulfonyl]phenyl}a mino)-4- pyrimidinyl]amino}phenyl)carbon yl]glycine	0.64 <sup>c</sup>	457.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.92 (s, 1H), 9.59 (br. s., 1H), 8.40 (s, 1H), 8.04 (s, 1H), 7.81 - 7.88 (m, 1H), 7.56 (t, $J = 8.03$ Hz, 1H), 7.48 (q, $J = 4.85$ Hz, 1H), 7.41 (d, $J = 8.03$ Hz, 1H), 7.15 (t, $J = 8.03$ Hz, 1H), 6.98 (s, 1H), 6.89 (d, $J = 8.03$ Hz, 1H), 6.52 (dd, $J = 1.76$ , 8.03 Hz, 1H), 6.20 (s, 1H), 2.44 (d, $J = 4.77$ Hz, 3H)

371	N-methyl-3-[(6-{[3-(6-oxo-1,6-dihydro-3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide	1.31°	449.2 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.71 (br. s., 1H), 9.46 (br. s., 1H), 8.35 (s, 1H), 8.13 (s, 1H), 7.93 (d, $J$ = 8.03 Hz, 1H), 7.80 (dd, $J$ = 2.76, 9.29 Hz, 1H), 7.71 (br. s., 1H), 7.66 (d, $J$ = 2.51 Hz, 1H), 7.56 (d, $J$ = 7.03 Hz, 1H), 7.46 - 7.53 (m, 1H), 7.30 - 7.39 (m, 4H), 7.17 (d, $J$ = 7.78 Hz, 1H), 6.46 (d, $J$ = 9.54 Hz, 1H), 6.33 (s, 1H), 2.42 - 2.47 (m, 3H)
372	3-({6-[(3-hydroxyphenyl)amino]- 4-pyrimidinyl}amino)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	4.99 <sup>b</sup>	372.1 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO-d6) δ ppm 9.92 (s, 1H), 9.59 (br. s., 1H), 8.40 (s, 1H), 8.04 (s, 1H), 7.79 - 7.90 (m, 1H), 7.56 (t, $J = 8.03$ Hz, 1H), 7.48 (q, $J = 4.85$ Hz, 1H), 7.41 (d, $J = 8.03$ Hz, 1H), 7.15 (t, $J = 8.03$ Hz, 1H), 6.98 (s, 1H), 6.89 (d, $J = 8.03$ Hz, 1H), 6.52 (dd, $J = 1.76$ , 8.03 Hz, 1H), 6.20 (s, 1H), 2.44 (d, $J = 4.77$ Hz, 3H)
373	N-methyl-4-(methylsulfonyl)-3- [(6-{[4- trifluoromethyl)phenyl]amino}-4- pyrimidinyl)amino]benzene- sulfonamide	2.60ª	502.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> 6) δ ppm 9.81 (s, 1 H), 9.00 (s, 1 H), 8.42 – 8.39 (m, 2 H), 8.12 (d, $J$ =8.28 Hz, 1 H), 7.86 (d, $J$ =8.53 Hz, 2 H), 7.79 – 7.82 (m, 1 H), 7.64 – 7.71 (m, 3 H), 6.39 (s, 1 H), 3.32 (s, 3 H), 2.50 (s, 3 H)
374	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-(methylsulfonyl)benzenesulfonamide trifluoroacetate	2.40ª	468.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 2.47 (d, 3H, obscured by solvent) 3.31 (s, 3 H) 6.30 (s, 1 H) 7.38 (d, <i>J</i> =8.78 Hz, 2 H) 7.63 (d, <i>J</i> =8.78 Hz, 2 H) 7.69 (dd, <i>J</i> =8.41, 1.63 Hz, 1 H) 7.79 (q, <i>J</i> =4.77 Hz, 1 H) 8.12 (d, <i>J</i> =8.28 Hz, 1 H) 8.36 (s, 1 H) 8.42 (d, <i>J</i> =1.51 Hz, 1 H) 9.00 (br. s., 1 H) 9.60 (s, 1 H)
375	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-4-(isobutylsulfonyl)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.11°	509.9 (M+H) <sup>*</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 0.90 (d, $J$ =7.06 Hz, 6 H) 1.95 - 2.03 (m, 1 H) 2.47 (d, 3H, obscured by solvent) 3.27 (d, $J$ =6.17 Hz, 2 H) 6.37 (s, 1 H) 7.33 (d, $J$ =8.82 Hz, 2 H) 7.62 - 7.67 (m, 3 H) 8.06 (d, $J$ =8.38 Hz, 1 H) 8.31 (s, 1 H) 8.36 (d, $J$ =1.76 Hz, 1 H) 9.67 (s, 1 H)

376	3-(6-(4- chlorophenylamino)pyrimidin-4- ylamino)-4-(ethylsulfonyl)- <i>N</i> - methylbenzenesulfonamide trifluoroacetate	1.19 <sup>c</sup>	482.0 (M+H) <sup>+</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.08 (t, <i>J</i> =7.50 Hz, 3 H) 2.47 (d, 3H, obscured by solvent) 3.33 (q, 2H, obscured by solvent) 6.33 (s, 1 H) 7.32 (s, 2 H) 7.58 - 7.67 (m, 3 H) 7.81 (q, <i>J</i> =4.85 Hz, 1 H) 8.04 (d, <i>J</i> =8.38 Hz, 1 H) 8.32 (s, 1 H) 8.43 (d, <i>J</i> =1.76 Hz, 1 H) 8.90 (s, 1 H) 9.61 (s, 1 H)
377	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide	2.33ª	502.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 1.45 (d, $J$ =6.27 Hz, 3 H) 2.44 (d, $J$ =4.52 Hz, 3 H) 5.32 - 5.44 (m, 1 H) 6.14 (s, 1 H) 7.33 (d, $J$ =8.53 Hz, 2 H) 7.37 - 7.43 (m, 1 H) 7.44 - 7.52 (m, 2 H) 7.63 (d, $J$ =8.78 Hz, 2 H) 8.21 (d, $J$ =1.51 Hz, 1 H) 8.26 (s, 1 H) 8.59 (br. s., 1 H) 9.32 (s, 1 H)
378	3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide	2.32ª	502.0 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.45 (d, <i>J</i> =6.53 Hz, 3 H) 2.44 (d, <i>J</i> =4.77 Hz, 3 H) 5.33 - 5.44 (m, 1 H) 6.11 - 6.15 (m, 1 H) 7.33 (d, 2 H) 7.37 - 7.43 (m, 1 H) 7.44 - 7.52 (m, 2 H) 7.63 (d, <i>J</i> =8.78 Hz, 2 H) 8.21 (d, <i>J</i> =2.26 Hz, 1 H) 8.26 (s, 1 H) 8.59 (s, 1 H) 9.32 (s, 1 H)
379	3-({6-[(5-chloro-2- pyridinyl)amino]-4- pyrimidinyl}amino)- <i>N</i> -methyl-4- [(2,2,2-trifluoro-1- methylethyl)oxy]benzenesulfona mide	2.15ª	502.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- <i>d</i> <sub>6</sub> ) δ ppm 1.44 (d, <i>J</i> =6.27 Hz, 3 H) 2.44 (d, 3 H) 5.37 - 5.45 (m, 1 H) 7.20 (s, 1 H) 7.37 - 7.43 (m, 1 H) 7.46 (d, <i>J</i> =8.78 Hz, 1 H) 7.52 (dd, <i>J</i> =8.53, 2.01 Hz, 1 H) 7.62 (d, <i>J</i> =9.03 Hz, 1 H) 7.81 (dd, <i>J</i> =9.03, 2.76 Hz, 1 H) 8.13 (d, <i>J</i> =2.26 Hz, 1 H) 8.26 (d, <i>J</i> =2.26 Hz, 1 H) 8.28 (s, 1 H) 8.77 (s, 1 H) 10.03 (s, 1 H)
380	3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)- <i>N</i> -methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide	2.15 <sup>a</sup>	502.9 (M+H) <sup>†</sup>	<sup>1</sup> H NMR (400 MHz, DMSO- $d_6$ ) δ ppm 1.44 (d, $J$ =6.27 Hz, 3 H) 2.44 (br. s., 3 H) 5.35 - 5.46 (m, 1 H) 7.20 (s, 1 H) 7.40 (br. s., 1 H) 7.46 (d, $J$ =8.78 Hz, 1 H) 7.52 (dd, $J$ =8.78, 2.26 Hz, 1 H) 7.62 (d, $J$ =9.03 Hz, 1 H) 7.81 (dd, $J$ =8.91, 2.64 Hz, 1 H) 8.13 (d, $J$ =2.26 Hz, 1 H) 8.26 (d, $J$ =2.26 Hz, 1 H) 8.28 (s, 1 H) 8.77 (s, 1 H) 10.02 (s, 1 H)

<sup>a</sup> LCMS Method: Agilent 1100 Series LC/MSD SL or VL using electrospray positive [ES+ve to give  $M+H^{\dagger}$ ] equipped with a Sunfire C18 5.0  $\mu$ m column (3.0 mm x 50 mm, i.d.), eluting with 0.05% TFA in water (solvent A) and 0.05% TFA in CH<sub>3</sub>CN (solvent B), using the following elution gradient: 10–100% (solvent B) over 2.5 min and holding at 100% for 1.7 min at a flow rate of 1.0 mL/min.

- <sup>b</sup> LCMS Method: Agilent 1100 Series LC/MSD SL or VL using electrospray positive [ES+ve to give M+H $^{\dagger}$ ] equipped with a Sunfire C18 5.0  $\mu$ m column (3.0 mm x 50 mm, i.d.), eluting with 0.05% TFA in water (solvent A) and 0.05% TFA in CH<sub>3</sub>CN (solvent B), using the following elution gradient 10–100% (solvent B) over 10.0 min and holding at 100% for 1.7 min at a flow rate of 1.0 mL/min.
- <sup>c</sup> LCMS Method: Agilent 1200 Series LC/MSD SL or VL using electrospray positive [ES+ve to give M+H<sup>+</sup>] equipped with a XBridge C18 3.5 μm column (50 x 4.6 mm, i.d.), eluting with 10 mM NH<sub>4</sub>HCO<sub>3</sub> in water (solvent A) and CH<sub>3</sub>CN (solvent B), using the following elution gradient 5– 95% (solvent B) over 1.2 min and holding at 95% for 1.5 min at a flow rate of 2.0 mL/min.
- <sup>d</sup> LCMS Method: Agilent 1200 Series LC/MSD VL using electrospray positive [ES+ve to give M+H $^{\dagger}$ ] equipped with a shim-pack XR-ODS 2.2 μm column (3.0 mm x 30 mm, 3.0 mm i.d.) eluting with 0.0375% TFA in water (solvent A) and 0.01875% TFA in CH<sub>3</sub>CN (solvent B), using the following elution gradient 10-80% (solvent B) over 0.9 min and holding at 80% for 0.6 min at a flow rate of 1.2 mL/min.

#### **Pharmaceutical Compositions**

## Example A

Tablets are prepared using conventional methods and are formulated as follows:

Ingredient	Amount per tablet
Compound of Example I	5 mg
Microcrystalline cellulose	100 mg
Lactose	100 mg
Sodium starch glycollate	30 mg
Magnesium stearate	2 mg
Total	237 mg

#### Example B

Capsules are prepared using conventional methods and are formulated as follows:

Ingredient	Amount per tablet
Compound of Example 3	15 mg
Dried starch	178 mg
Magnesium stearate	2 mg
Total	195 mg

## Biological Assay(s)

Materials: His-MBP-TEV-Full length human TNNI3K (hTNNI3K) was expressed in *Baculokinase* system and purified from amylase affinity column followed by Superdex200. The fluorescent ligand 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl)amino]-2-pyrimidinyl}amino)phenyl]carbonyl}amino)ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid was used. The preparation of this fluorescent ligand is disclosed in U.S. Provisional Patent Application No. 61/237,815 filed August 28, 2009, the disclosure of which is incorporated by reference herein. The other buffer components, including MgCl<sub>2</sub> (Catalog Number M1028), Bis-Tris (Catalog Number B7535), DTT (Catalog Number D9779) and Chaps (Catalog Number C3023) were purchased from Sigma-Aldrich.

# Biological Assay Method I:

A fluorescent polarization assay was used to determine does response of compound inhibition on hTNNI3K ATP binding. The binding of 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl)amino]-2-pyrimidinyl}amino)phenyl]carbonyl}amino)ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid to the hTNNI3K ATP binding pocket results in increase of fluorescent polarization and the displacement of 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl)amino]-2-pyrimidinyl}amino)phenyl]carbonyl}amino)ethyl]amino} carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid by a competitive compound leads to fluorescent polarization decrease.

Solution 1: Ten (10) mL of a 5 nM 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl) amino]-2-pyrimidinyl}amino)phenyl]carbonyl}amino)ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid solution (Solution 1) was prepared by mixing 5  $\mu$ L of 1 M DTT and 80  $\mu$ L of 10% (w/v) Chaps and 5  $\mu$ L of a 10  $\mu$ M 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl)amino]-2-pyrimidinyl}amino)phenyl]carbonyl}amino) ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid stock solution into 9910  $\mu$ L buffer (20 mM Tris, 15 mM MgCl<sub>2</sub>, pH 7.5). (Stock solution: 10  $\mu$ M solution of 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl)amino]-2-pyrimidinyl}amino)phenyl]carbonyl}amino) ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid in 100% DMSO)

Solution 2 was formed by mixing 53.8  $\mu$ L of 2.6  $\mu$ M hTNNI3K with a 6946.2  $\mu$ L aliquot of Solution 1 (the above 5-({[2-({[3-({4-[(5-hydroxy-2-methylphenyl)amino}-2-pyrimidinyl}amino)phenyl]carbonyl}amino)ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid solution) to make up a 7 mL of mixture of hTNNI3K and 5-({[2-({4-[(5-hydroxy-2-methylphenyl)amino}-2-pyrimidinyl}amino)phenyl]carbonyl}

amino)ethyl]amino}carbonyl)-2-(6-hydroxy-3-oxo-3*H*-xanthen-9-yl)benzoic acid (Solution 2).

Fifty (50) nL of inhibitors in DMSO (or DMSO controls) were stamped into a 384-well low volume Greiner black plate, followed by addition of 5  $\mu$ L of Solution 1 to column 18 and 5  $\mu$ L Solution 2 to columns 1-17 and 19-24 of the plate. The plate was then spun at 500 rpm for 30 seconds and incubated at rt for 60 min. After that, the fluorescent polarization was measured on Analyst (ex/em: 485/530 nm, Dichroic: 505). For dose response experiments, normalized data were fit by ABASE/XC<sub>50</sub> and pXC<sub>50</sub> = (log((b-y)/(y-a)))/d – log(x), where x is the compound concentration and y is the% activity at specified compound concentration, a is the minimum% activity, b is the maximum% activity, and d is the Hill slope.

The pXC $_{50}$ s are averaged to determine a mean value, for a minimum of 2 experiments. As determined using the above method, the compounds of Examples 1-380 exhibited a pXC $_{50}$  greater than or equal to approximately 6.0. For instance, the compounds of Example 55 and Example 284 each inhibited hTNNI3K in the above method with a mean pXC $_{50}$  of approximately 7.0.

### THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A compound according to Formula I:

wherein:

R<sup>1</sup> is (C<sub>1</sub>-C<sub>4</sub>)alkyl;

R<sup>2</sup> is hydrogen or halogen;

 $R^3$  is hydrogen, halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl,  $(C_3-C_6)$ cycloalkyl, aryl, hydroxyl, hydroxy( $C_1-C_4$ )alkyl-,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ alkyl-,  $(C_1-C_4)$ haloalkoxy,  $(C_3-C_6)$ cycloalkyloxy,  $(C_1-C_4)$ alkylthio-, amino,  $(C_1-C_4)$ alkylamino, or  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino;

 $R^4$  is hydrogen, halogen,  $(C_1-C_8)$ alkyl,  $(C_1-C_8)$ haloalkyl,  $(C_3-C_8)$ cycloalkyl, hydroxyl, hydroxyl,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkoxy,  $(C_3-C_8)$ cycloalkyloxy,  $(C_1-C_8)$ alkylthio-,  $(C_1-C_8)$ haloalkylthio-,  $-SO_2(C_1-C_4)$ alkyl, amino,  $-NHR^7$ , or  $-NR^7R^8$ ;

R<sup>5</sup> is hydrogen;

or  $R^4$  and  $R^5$  taken together with atoms through which they are connected form a 5 or 6 membered ring, optionally containing one or two additional heteroatoms selected from N, O and S, which ring may be unsubstituted or substituted with one to three substituents independently selected from  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, hydroxy $(C_1-C_4)$ alkyl-, oxo, hydroxyl,  $(C_1-C_4)$ alkoxy,  $(C_1-C_4)$ haloalkoxy, and  $(C_1-C_4)$ alkylthio-;

 $R^6$  is (C<sub>1</sub>-C<sub>8</sub>)alkyl, (C<sub>2</sub>-C<sub>8</sub>)alkenyl, (C<sub>2</sub>-C<sub>8</sub>)alkynyl, (C<sub>3</sub>-C<sub>8</sub>)cycloalkyl, aryl, or heteroaryl, wherein any aryl or heteroaryl group is optionally substituted one to three times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyano, -CO(C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CO<sub>2</sub>R<sup>7</sup>, -CONH<sub>2</sub>, -CONHR<sup>7</sup>, -CONR<sup>7</sup>R<sup>8</sup>, HO<sub>2</sub>C(C<sub>1</sub>-C<sub>2</sub>)alkyl-, R<sup>7</sup>O<sub>2</sub>C(C<sub>1</sub>-C<sub>2</sub>)alkyl-, -SR<sup>7</sup>, -SO<sub>2</sub>(C<sub>1</sub>-C<sub>4</sub>)alkyl, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>, nitro, amino, -NHR<sup>7</sup>, -NR<sup>7</sup>R<sup>8</sup>, amino(C<sub>1</sub>-C<sub>2</sub>)alkyl-,

 $R^7HN(C_1-C_2)alkyl-$ ,  $R^7R^8N(C_1-C_2)alkyl-$ ,  $-NHCO(C_1-C_4)alkyl$ ,  $-NHSO_2(C_1-C_4)alkyl$ , oxo, hydroxyl,  $-OR^7$ , hydroxy( $C_1-C_2$ )alkyl-,  $R^7O(C_1-C_2)alkyl-$ , cyano( $C_1-C_2$ )alkyl-, aryl, heteroaryl, or heteroaryl( $C_1-C_2$ )alkyl-, wherein any said aryl or heteroaryl is optionally substituted one to three times, independently, by halogen, ( $C_1-C_6$ )alkyl, ( $C_3-C_6$ )cycloalkyl, ( $C_1-C_4$ )haloalkyl, cyano,  $-CO(C_1-C_4)alkyl$ ,  $-CO_2H$ ,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $-SR^7$ ,  $-SO_2(C_1-C_4)alkyl$ ,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino,  $-NHR^7$ ,  $-NR^7R^8$ ,  $-NHCO(C_1-C_4)alkyl$ ,  $-NHSO_2(C_1-C_4)alkyl$ , oxo, hydroxyl,  $-OR^7$ , hydroxy( $C_1-C_2$ )alkyl-, or  $R^7O(C_1-C_2)alkyl-$ ;

 $\mathsf{R}^7$  is  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, aryl, heterocycloalkyl, or heterocycloalkyl( $\mathsf{C}_1\mathsf{-C}_2$ )alkyl, wherein said  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl,  $(\mathsf{C}_1\mathsf{-C}_4)$ alkoxy, amino,  $(\mathsf{C}_1\mathsf{-C}_4)$ alkylamino,  $((\mathsf{C}_1\mathsf{-C}_4)$ alkyl)( $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl)amino,  $-\mathsf{CO}_2\mathsf{H}$ ,  $-\mathsf{CO}_2(\mathsf{C}_1\mathsf{-C}_4)$ alkyl,  $-\mathsf{CONH}_2$ ,  $-\mathsf{CONH}(\mathsf{C}_1\mathsf{-C}_4)$ alkyl, or  $-\mathsf{CON}((\mathsf{C}_1\mathsf{-C}_4)$ alkyl)( $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl); and wherein any heterocycloalkyl is optionally substituted by  $(\mathsf{C}_1\mathsf{-C}_4)$ alkyl; and

 $R^8$  is  $(C_1-C_4)$ alkyl;

or  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent a 5-7 membered heterocyclic ring, optionally containing an additional heteroatom selected from oxygen, nitrogen, and sulfur, wherein said ring is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $((C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl) $((C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl;

or a salt thereof.

- 2. The compound or salt according to claim 1, wherein R<sup>1</sup> is methyl.
- 3. The compound or salt according to claim 1 or 2, wherein R<sup>2</sup> and R<sup>3</sup> are each hydrogen.
- 4. The compound or salt according to any one of claims 1-3, wherein  $R^4$  is hydrogen, halogen,  $(C_1-C_8)$ alkyl,  $(C_1-C_8)$ haloalkyl,  $(C_3-C_8)$ cycloalkyl, hydroxyl, hydroxyl, hydroxyl,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkoxy,  $(C_1-C_8)$ alkyl-,  $(C_1-C_8)$ haloalkyl-,  $(C_1-C_8)$ haloalkyl-,  $(C_1-C_8)$ haloalkyl-, amino,  $(C_1-C_4)$ alkylamino,  $(C_1-C_4)$ haloalkylamino,  $((C_1-C_4)$ alkyl)( $((C_1-C_4)$ alkyl))( $((C_1-C_4)$ alkyl)))( $((C_1-C_4)$ alkyl)))), pyrazolidinyl, piperidinyl, piperazinyl, morpholinyl, or thiomorpholinyl, wherein said pyrrolidinyl, imidazolidinyl, piperidinyl, piperidinyl, piperidinyl, piperidinyl, piperidinyl, piperidinyl,

piperazinyl, morpholinyl, or thiomorpholinyl is optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl.

- 5. The compound or salt according to any one of claims 1-3, wherein R<sup>4</sup> and R<sup>5</sup> taken together represent –CH<sub>2</sub>CH<sub>2</sub>–.
- 6. The compound or salt according to any one of claims 1-5, wherein R<sup>6</sup> is (C<sub>1</sub>-C<sub>6</sub>)alkyl, phenyl, dihydroindenyl, tetrahydronaphthalenyl, oxazolyl, thiazolyl, thiadiazolyl, pyridinyl, pyrimidinyl, indolyl, indazolyl, dihydroindolyl, dihydroisoindolyl, chromenyl, dihydrobenzimidazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzoisothiazolyl, quinolinyl, isoquinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, tetrahydroisoguinolinyl, benzodioxolyl, or dihydrobenzodioxinyl, wherein said phenyl, dihydroindenyl, tetrahydronaphthalenyl, oxazolyl, thiazolyl, thiadiazolyl, pyridinyl, pyrimidinyl, indolyl, indazolyl, dihydroindolyl, dihydroisoindolyl, chromenyl, dihydrobenzimidazolyl, dihydrobenzoxazolyl, benzothiazolyl, dihydrobenzoisothiazolyl, quinolinyl, isoquinolinyl, dihydroquinolinyl, tetrahydroquinolinyl, tetrahydroisoquinolinyl, benzodioxolyl, or dihydrobenzodioxinyl group is optionally substituted one to three times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>2</sub>-C<sub>6</sub>)alkynyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C₁-C₄)haloalkyl, cyano, -CO(C₁-C₄)alkyl, -CO₂H, -CO₂R<sup>7</sup>, -CONH₂, -CONHR<sup>7</sup>, -CONR<sup>7</sup>R<sup>8</sup>,  $HO_2C(C_1-C_2)alkyl-$ ,  $R^7O_2C(C_1-C_2)alkyl-$ , cyano $(C_1-C_2)alkyl-$ ,  $-SR^7$ ,  $-SO_2(C_1-C_4)alkyl-$ -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NHR<sup>7</sup>, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>, nitro, amino, -NHR<sup>7</sup>, -NR<sup>7</sup>R<sup>8</sup>, amino(C<sub>1</sub>-C<sub>2</sub>)alkyl-,  $R^7HN(C_1-C_2)$ alkyl-,  $R^7R^8N(C_1-C_2)$ alkyl-, triazolyl( $C_1-C_2$ )alkyl-, -NHCO( $C_1-C_4$ )alkyl, -NHSO<sub>2</sub>( $C_1$ - $C_4$ )alkyl, oxo, hydroxyl, -OR<sup>7</sup>, hydroxy( $C_1$ - $C_2$ )alkyl-, R<sup>7</sup>O( $C_1$ - $C_2$ )alkyl-, phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl, wherein said phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl is optionally substituted one or two times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyano,  $-CO(C_1-C_4)alkyl, -CO_2H, -CO_2R^7, -CONH_2, -CONHR^7, -CONR^7R^8, -SR^7, -SO_2(C_1-C_4)alkyl,$ -SO<sub>2</sub>NH<sub>2</sub>, -SO<sub>2</sub>NHR<sup>7</sup>, -SO<sub>2</sub>NR<sup>7</sup>R<sup>8</sup>, nitro, amino, -NHR<sup>7</sup>, -NR<sup>7</sup>R<sup>8</sup>, -NHCO(C₁-C₄)alkyl, -NHSO<sub>2</sub>( $C_1$ - $C_4$ )alkyl, oxo, hydroxyl, -OR<sup>7</sup>, hydroxy( $C_1$ - $C_2$ )alkyl-, or R<sup>7</sup>O( $C_1$ - $C_2$ )alkyl-.
- 7. The compound or salt according to any one of claims 1-5, wherein R<sup>6</sup> is phenyl optionally substituted one to three times, independently, by halogen, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>3</sub>-C<sub>6</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>4</sub>)haloalkyl, cyano, -CO(C<sub>1</sub>-C<sub>4</sub>)alkyl, -CO<sub>2</sub>H, -CO<sub>2</sub>R<sup>7</sup>, -CONH<sub>2</sub>, -CONHR<sup>7</sup>, -CONR<sup>7</sup>R<sup>8</sup>, HO<sub>2</sub>C(C<sub>1</sub>-C<sub>2</sub>)alkyl-, R<sup>7</sup>O<sub>2</sub>C(C<sub>1</sub>-C<sub>2</sub>)alkyl-,

cyano( $C_1$ - $C_2$ )alkyl-, -SR $^7$ , -SO $_2$ ( $C_1$ - $C_4$ )alkyl, -SO $_2$ NH $_2$ , -SO $_2$ NHR $^7$ , -SO $_2$ NR $^7$ R $^8$ , nitro, amino, -NHR $^7$ , -NR $^7$ R $^8$ , amino( $C_1$ - $C_2$ )alkyl-, R $^7$ HN( $C_1$ - $C_2$ )alkyl-, R $^7$ R8N( $C_1$ - $C_2$ )alkyl-, triazolyl( $C_1$ - $C_2$ )alkyl-, -NHCO( $C_1$ - $C_4$ )alkyl, -NHSO $_2$ ( $C_1$ - $C_4$ )alkyl, oxo, hydroxyl, -OR $^7$ , hydroxy( $C_1$ - $C_2$ )alkyl-, R $^7$ O( $C_1$ - $C_2$ )alkyl-, phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl, wherein said phenyl, thienyl, pyrazolyl, imidazolyl, oxazolyl, thiazolyl, or pyridinyl is optionally substituted one or two times, independently, by halogen, ( $C_1$ - $C_6$ )alkyl, ( $C_3$ - $C_6$ )cycloalkyl, ( $C_1$ - $C_4$ )haloalkyl, cyano, -CO( $C_1$ - $C_4$ )alkyl, -CO $_2$ H, -CO $_2$ R $^7$ , -CONH $_2$ , -CONHR $^7$ , -CONR $^7$ R $^8$ , -SR $^7$ , -SO $_2$ ( $C_1$ - $C_4$ )alkyl, -SO $_2$ NH $_2$ , -SO $_2$ NHR $^7$ , -SO $_2$ NR $^7$ R $^8$ , nitro, amino, -NHR $^7$ , -NR $^7$ R $^8$ , -NHCO( $C_1$ - $C_4$ )alkyl, -NHSO $_2$ ( $C_1$ - $C_4$ )alkyl, oxo, hydroxyl, -OR $^7$ , hydroxy( $C_1$ - $C_2$ )alkyl-, or R $^7$ O( $C_1$ - $C_2$ )alkyl-.

- 8. The compound or salt according to any one of claims 1-5, wherein  $R^6$  is pyridinyl optionally substituted one or two times, independently, by halogen,  $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ cycloalkyl,  $(C_1-C_4)$ haloalkyl, cyano,  $-CO(C_1-C_4)$ alkyl,  $-CO_2H$ ,  $-CO_2R^7$ ,  $-CONH_2$ ,  $-CONHR^7$ ,  $-CONR^7R^8$ ,  $HO_2C(C_1-C_2)$ alkyl-,  $R^7O_2C(C_1-C_2)$ alkyl-,  $-SR^7$ ,  $-SO_2(C_1-C_4)$ alkyl,  $-SO_2NH_2$ ,  $-SO_2NHR^7$ ,  $-SO_2NR^7R^8$ , nitro, amino,  $-NHR^7$ ,  $-NR^7R^8$ , amino $(C_1-C_2)$ alkyl-,  $R^7HN(C_1-C_2)$ alkyl-,  $R^7R^8N(C_1-C_2)$ alkyl-,  $-NHCO(C_1-C_4)$ alkyl,  $-NHSO_2(C_1-C_4)$ alkyl, oxo, hydroxyl,  $-OR^7$ , hydroxy( $C_1-C_2$ )alkyl-, or  $R^7O(C_1-C_2)$ alkyl-.
- 9. The compound or salt according to any one of claims 1-8, wherein  $R^7$  is  $(C_1-C_4)$ alkyl, phenyl, pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or pyrrolidinyl( $C_1-C_2$ )alkyl, piperidinyl( $C_1-C_2$ )alkyl, morpholinyl( $C_1-C_2$ )alkyl, thiomorpholinyl( $C_1-C_2$ )alkyl, or piperazinyl( $C_1-C_2$ )alkyl, wherein said ( $C_1-C_4$ )alkyl is optionally substituted one to three times, independently, by halogen, hydroxyl,  $(C_1-C_4)$ alkoxy, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino,  $(C_2-C_4)$ alkyl,  $(C_1-C_4)$ alkyl, or  $(C_1-C_4)$ alkyl, or  $(C_1-C_4)$ alkyl, or piperazinyl is optionally substituted by  $(C_1-C_4)$ alkyl.
- 10. The compound or salt according to any one of claims 1-8, wherein  $R^7$  and  $R^8$  taken together with the nitrogen to which they are attached represent pyrrolidinyl, piperidinyl, morpholinyl, thiomorpholinyl, piperazinyl, or hexahydro-1H-1,4-diazepinyl, each optionally substituted one or two times, independently, by halogen,  $(C_1-C_4)$ alkyl,  $(C_1-C_4)$ haloalkyl, amino,  $(C_1-C_4)$ alkylamino,  $((C_1-C_4)$ alkyl)( $(C_1-C_4)$ alkyl)amino, hydroxyl, oxo,  $(C_1-C_4)$ alkoxy, or  $(C_1-C_4)$ alkoxy $(C_1-C_4)$ alkyl.

## 11. A compound which is:

*N*-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(3-chlorophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-{[6-(methylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

- 3-{[6-(ethylamino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide;
- 3,3'-(4,6-pyrimidinediyldiimino)bis(*N*-methylbenzenesulfonamide);
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-5-(dimethylamino)-*N*-methylbenzenesulfonamide;
- 3-chloro-5-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(propyloxy)benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(ethyloxy)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2-methylpropyl)oxy]benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1,2-dimethylpropyl)oxy]-*N*-methylbenzenesulfonamide;
- 4-chloro-3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclohexyloxy)-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[(1-ethylpropyl)oxy]-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(3,3,3-trifluoropropyl)oxy]-benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(cyclopentyloxy)-*N*-methylbenzenesulfonamide;
- 5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro-4-methoxy-*N*-methylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[methyl(2,2,2-trifluoroethyl)amino]benzenesulfonamide;
- 1-[6-(4-chloro-phenylamino)-pyrimidin-4-yl]-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid methylamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

- 5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro-*N*-methyl-4-(2,2,2-trifluoroethoxy)benzenesulfonamide;
- 4-amino-3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 5-[6-(4-chloro-phenylamino)-pyrimidin-4-ylamino]-4-dimethylamino-2-fluoro-*N*-methyl-benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-piperidinyl)-*N*-methylbenzenesulfonamide:
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-{[2,2,2-trifluoro-1-(trifluoromethyl)ethyl]oxy}benzenesulfonamide;
- 4-(dimethylamino)-3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(4-morpholinyl)benzenesulfonamide;
- 1-{6-[(3-fluorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide:
- 3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;
- *N*-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-(methylthio)benzenesulfonamide;
- 3-[(6-{[3-chloro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;
- 3-[(6-{[3-chloro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methyl-4-(methyloxy)benzenesulfonamide;
- *N*-methyl-4-(methyloxy)-3-({6-[(4-{[2-(methyloxy)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;
- *N*-methyl-3-({6-[(4-{[2-(methyloxy)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;
- *N*-methyl-4-(methyloxy)-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- *N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- *N*-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide;

4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]-*N*-[2-(methyloxy)ethyl]benzamide;

*N*-methyl-4-(methyloxy)-3-[(6-{[4-(1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

N-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-{[6-({4-[(2,2,2-

trifluoroethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro-*N*-methylbenzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

1-{6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}-*N*,3,3-trimethyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

3-[6-(6-bromo-4-methyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-(2,2,2-trifluoro-ethoxy)-benzenesulfonamide;

3-({6-[(3,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-{[6-(3-biphenylylamino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(4-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

3-({6-[(3-acetylphenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[3-(methyloxy)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)acetamide;

N-methyl-3-{[6-(phenylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

N-methyl-3-[(6-{[3-(trifluoromethyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(2-methyl-1,2,3,4-tetrahydro-7-isoquinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(2-fluorophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(4-morpholinylsulfonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-{[6-({3-[(ethylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(methylsulfonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[6-(1*H*-indazol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-phenylbenzamide;

3-{[6-({3-[(dimethylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

3-[(6-{[3-(aminosulfonyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-(1-methylethyl)benzenesulfonamide;

 $3-(\{6-[(4-acetylphenyl)amino]-4-pyrimidinyl\}amino)-\textit{N}-methylbenzenesulfonamide;}\\$ 

N-methyl-3-[(6-{[4-(methylsulfonyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)acetamide;

*N*-(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)propanamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-phenylbenzamide;

3-({6-[(1,1-dioxido-2,3-dihydro-1,2-benzisothiazol-6-yl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1*H*-indol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-[6-(2-methyl-benzothiazol-5-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

N-methyl-3-({6-[(3-nitrophenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

N-methyl-3-[(6-{[4-(4-morpholinylcarbonyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

3-[6-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[4-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(4-morpholinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-[(6-{[4-(dimethylamino)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-[(6-{[3-(dimethylamino)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

methyl 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoate;

1-methylethyl 4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoate;

3-({6-[(4-chloro-3-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(4-fluoro-3-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-{[6-(1*H*-indol-6-ylamino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

N-methyl-3-{[6-({3-[(methylsulfonyl)amino]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-({6-[(3-methyl-1*H*-indazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(4-{[2-(diethylamino)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

1-methylethyl [(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)oxy]acetate;

3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

3-[6-(1H-indol-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

3-{[6-(1,3-benzothiazol-5-ylamino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

3-({6-[(3-fluoro-4-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(3-fluorophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

3-[(6-{[3-fluoro-4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(methyloxy)-3-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-chloro-3-fluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-[(6-{[3-fluoro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-methyl-3-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[4-chloro-3-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(2,2,2-trifluoroethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-(methylthio)-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzoic acid;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(diethylamino)-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(2,5-dimethyl-1-pyrrolidinyl)-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(2-methyl-1-pyrrolidinyl)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*,4-dimethylbenzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(isobutylthio)-*N*-methylbenzenesulfonamide;

4-(isobutylthio)-*N*-methyl-3-(6-(4-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

4-(isobutylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

3-{[6-({4-[(difluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-{[6-({4-[(trifluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(4-cyanophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(ethylthio)-*N*-methylbenzenesulfonamide;

4-(ethylthio)-*N*-methyl-3-(6-(4-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

4-(ethylthio)-3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(2,2,2-trifluoroethylthio)benzenesulfonamide;

*N*-methyl-4-(2,2,2-trifluoroethylthio)-3-(6-(4-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

3-(6-(4-isopropylphenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(2,2,2-trifluoroethylthio)benzenesulfonamide;

4-fluoro-*N*-methyl-3-{[6-({4-[(trifluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-{[6-({4-[(difluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-4-fluoro-*N*-methylbenzenesulfonamide;

4-chloro-*N*-methyl-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-cyanophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-(6-(1*H*-indazol-5-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

3-(6-(4-(cyanomethyl)phenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

4-(*tert*-butylsulfonyl)-3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1,1-dimethylethyl)oxy]benzenesulfonamide;
  - 3-({6-[(3-bromophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;
- 3-({6-[(3-bromo-4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-[6-(3,4-dimethoxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide:
- *N*-methyl-4-methylsulfanyl-3-[6-(3,4,5-trimethoxy-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;
- 3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;
- 3-[6-(4-cyano-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide:
- 3-[6-(benzo[1,3]dioxol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;
- 3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;
- *N*-methyl-3-[6-(2-methyl-benzothiazol-5-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide;
- 3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;
- 3-[6-(3,4-difluoro-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanylbenzenesulfonamide;
- *N*-methyl-4-methylsulfanyl-3-[6-(4-morpholin-4-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;
- 3-[6-(2,3-dihydro-benzo[1,4]dioxin-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;
- *N*-methyl-4-methylsulfanyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;
- 3-[6-(3-ethynyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamid;
- 3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamide;

3-(6-(3-methoxy-5-(trifluoromethyl)phenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

3-[6-(1*H*-indol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-[6-(quinolin-6-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3-chloro-4-cyano-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-[6-(4-[1,2,4]triazol-4-ylmethyl-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(1*H*-indazol-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

3-[6-(1*H*-indol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-4-(methylthio)-3-(6-(4-(piperazin-1-yl)phenylamino)pyrimidin-4-ylamino)benzenesulfonamide;

*N*-methyl-3-(6-(4-methyl-2-oxo-1,2-dihydroquinolin-7-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide;

3-(6-(1-acetylindolin-6-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

*N*-methyl-3-[6-(2-methyl-4-oxo-4*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide;

3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide:

*N*-methyl-4-methylsulfanyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

*N*-methyl-4-methylsulfanyl-3-[6-(3,4,5-trifluoro-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

*N*-methyl-3-[6-(4-methyl-2-oxo-2*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-4-methylsulfanyl-benzenesulfonamide;

3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide:

3-[6-(1*H*-indazol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-methylsulfanyl-benzenesulfonamide;

*N*-methyl-3-(6-(2-methyl-1,3-dioxoisoindolin-5-ylamino)pyrimidin-4-ylamino)-4-(methylthio)benzenesulfonamide;

3-[6-(3,5-dimethoxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide:

*N*-methyl-3-[6-(3,4,5-trimethoxy-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3-ethynyl-phenylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

3-[6-(benzo[1,3]dioxol-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-

benzenesulfonamide;

3-[6-(3-chloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

3-[6-(3,4-difluoro-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide; *N*-methyl-3-[6-(4-piperidin-1-yl-phenylamino)-pyrimidin-4-ylamino]-

benzenesulfonamide;

3-[6-(4-cyano-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

*N*-methyl-3-[6-(2-methyl-4-oxo-4*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(3,5-dichloro-4-hydroxy-phenylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{6-[3-(2-methyl-thiazol-4-yl)-phenylamino]-pyrimidin-4-ylamino}-benzenesulfonamide;

3-[6-(1H-indazol-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide;

*N*-methyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(4-cyanomethyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

*N*-methyl-3-[6-(4-methyl-2-oxo-2*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(1-acetyl-2,3-dihydro-1*H*-indol-6-ylamino)-pyrimidin-4-ylamino]-*N*-methylbenzenesulfonamide;

3-[6-(3-methoxy-5-trifluoromethyl-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-benzenesulfonamide;

*N*-methyl-3-[6-(4-methyl-2-oxo-1,2-dihydro-quinolin-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide:

*N*-methyl-3-[6-(3,4,5-trifluoro-phenylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-N-methyl-benzenesulfonamide

3-[6-(4-chloro-phenylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-(propane-2-sulfonyl)-benzenesulfonamide;

- 3-(6-(3-bromo-5-methylphenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-(6-(1*H*-indol-6-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-(6-(3-ethynylphenylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-[6-(indan-5-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl-*N*-methylbenzenesulfonamide;
- 3-[6-(benzothiazol-6-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl-*N*-methylbenzenesulfonamide;
- 4-methanesulfonyl-*N*-methyl-3-[6-(5-oxo-5,6,7,8-tetrahydro-naphthalen-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;
- *N*-methyl-3-(6-(2-methylbenzo[d]thiazol-5-ylamino)pyrimidin-4-ylamino)-4-(methylsulfonyl)benzenesulfonamide;
- *N*-methyl-4-(methylsulfonyl)-3-[(6-{[4-(1*H*-1,2,4-triazol-1-ylmethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- 3-[6-(1*H*-indol-5-ylamino)-pyrimidin-4-ylamino]-4-methanesulfonyl-*N*-methylbenzenesulfonamide:
- 4-methanesulfonyl-*N*-methyl-3-[6-(2-methyl-4-oxo-4*H*-chromen-7-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;
- 5-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-2-fluoro-*N*-methylbenzenesulfonamide;
- 5-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-2-fluoro-*N*-methyl-4-(1,1,1-trifluoropropan-2-yloxy)benzenesulfonamide;
- 1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide;
- 3-[(6-{[3,4-bis(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;
- 3-({6-[(3,4-dichlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;
- 3-({6-[(3,4-dimethylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[3-(1-methylethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[3-(1,1-dimethylethyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-[(6-{[3-(ethyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(4-fluorophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[3-(1-pyrrolidinyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[3-(4-methyl-1-piperazinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3,5-dichlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1*H*-indol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1,3-benzoxazol-6-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-2,3-dihydro-1*H*-benzimidazol-5-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-({6-[(2-oxo-1,2,3,4-tetrahydro-7-quinolinyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(3-bromo-5-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(3,5-dimethylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({4-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-[(6-{[3-(1-pyrrolidinylmethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(4-{[2-(4-morpholinyl)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

3-({6-[(4-{[2-(dimethylamino)ethyl]oxy}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({3-[(4-methyl-1-piperazinyl)methyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-[(6-{[4-(1-methylethyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-{[6-({4-[(1-methylethyl)oxy]phenyl}amino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-{[6-({4-[(difluoromethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(2-oxo-1-pyrrolidinyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[3-chloro-4-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(4-cyclopropylphenyl)amino]-4-pyrimidinyl}amino)-N-

methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(1H-pyrazol-1-yl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[4-(3,5-dimethyl-1*H*-pyrazol-1-yl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

3-[(6-{[4-chloro-3-(methyloxy)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(2-thienyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-[(6-{[4-(2-methyl-1H-imidazol-1-yl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-[(6-{[4-(1-methylpropyl)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-{[6-(6-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-{[6-({4-[(trifluoromethyl)thio]phenyl}amino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(4-bromophenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

N-methyl-3-[(6-{[4-(methylthio)phenyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-{[6-({4-[(trifluoromethyl)oxy]phenyl}amino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(dimethylamino)-*N*-methylbenzenesulfonamide;

4-(dimethylamino)-*N*-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-1-(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)-2,3-dihydro-1*H*-indole-6-sulfonamide;

1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-1*H*-benzimidazole-6-sulfonamide;

3-({6-[(5-bromo-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(1-methylethyl)oxy]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(4-morpholinyl)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-[ethyl(methyl)amino]-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-hydroxy-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-fluoro-*N*-methylbenzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2R)-2-(trifluoromethyl)-1-pyrrolidinyl]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-4-(3,3-difluoro-1-pyrrolidinyl)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4-(1,3-oxazol-5-yl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(3-methylphenyl)amino]-4-pyrimidinyl}amino)-4-(4-morpholinyl)benzenesulfonamide;

*N*-methyl-4-(methyloxy)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-(methylthio)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

1-{6-[(3-bromo-5-methylphenyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

*N*-methyl-3-{[6-({4-[(2,2,2-trifluoroethyl)oxy]phenyl}amino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)thio]benzenesulfonamide;

3-({6-[(3,4-difluorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide;

*N*-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-{[6-(3-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-({6-[(5-methyl-3-pyridinyl)amino]-4-

pyrimidinyl}amino)benzenesulfonamide;

N-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-5-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-pyridinesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

N-methyl-3-{[6-(1,3-thiazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

N-methyl-3-({6-[(5-methyl-1,3-thiazol-2-yl)amino]-4-

pyrimidinyl}amino)benzenesulfonamide;

N-methyl-3-{[6-(1,3,4-thiadiazol-2-ylamino)-4-

pyrimidinyl]amino}benzenesulfonamide;

3-{[6-(3-isoquinolinylamino)-4-pyrimidinyl]amino}-N-methylbenzenesulfonamide;

N-methyl-3-{[6-(2-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-{[6-(1,3-oxazol-2-ylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

N-methyl-3-[(6-{[4-(trifluoromethyl)-1,3-thiazol-2-yl]amino}-4-

pyrimidinyl)amino]benzenesulfonamide;

methyl (2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazol-4-yl)acetate;

*N*-methyl-3-[(6-{[4-(1-methylethyl)-1,3-thiazol-2-yl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-({6-[(4-methyl-1,3-oxazol-2-yl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-4-(methyloxy)-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methyloxy)benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-3-{[6-(2-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylthio)benzenesulfonamide;

1-{6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}-*N*-methyl-2,3-dihydro-1*H*-indole-6-sulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-{[6-(4-pyridinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-3-{[6-(4-pyrimidinylamino)-4-pyrimidinyl]amino}-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-3-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-3-[(6-{[6-(trifluoromethyl)-3-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

 $3-(\{6-[(5-chloro-4-methyl-2-pyridinyl)amino]-4-pyrimidinyl\}amino)-N-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;$ 

 $3-(\{6-[(4,5-dichloro-2-pyridinyl)amino]-4-pyrimidinyl\}amino)-N-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;$ 

3-({6-[(5-chloro-6-methyl-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-(6-(5-isopropylpyridin-2-ylamino)pyrimidin-4-ylamino)-*N*-methyl-4-(2,2,2-trifluoroethoxy)benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-4-fluoro-*N*-methylbenzenesulfonamide;

4-fluoro-*N*-methyl-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

4-chloro-3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-{[6-(6-quinolinylamino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

4-(*tert*-butylsulfonyl)-*N*-methyl-3-(6-(5-(trifluoromethyl)pyridin-2-ylamino)pyrimidin-4-ylamino)benzenesulfonamide;

4-(*tert*-butylsulfonyl)-3-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)-*N*-methylbenzenesulfonamide;

*N*-methyl-4-(propane-2-sulfonyl)-3-[6-(5-trifluoromethyl-pyridin-2-ylamino)-pyrimidin-4-ylamino]-benzenesulfonamide;

3-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]-*N*-methyl-4-(propane-2-sulfonyl)-benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(trifluoromethyl)oxy]benzenesulfonamide;

1-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-yl]-3,3-dimethyl-2,3-dihydro-1*H*-indole-6-sulfonic acid methylamide;

5-(6-(5-chloropyridin-2-ylamino)pyrimidin-4-ylamino)-2-fluoro-*N*-methyl-4-(1,1,1-trifluoropropan-2-yloxy)benzenesulfonamide;

5-[6-(5-chloro-pyridin-2-ylamino)-pyrimidin-4-ylamino]-2-fluoro-4-methanesulfonyl-*N*-methyl-benzenesulfonamide;

5-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

2-fluoro-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]-5-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(5-fluoro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoroethyl)oxy]benzenesulfonamide;

3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-4-(ethylsulfonyl)-*N*-methylbenzenesulfonamide;

- 4-(ethylsulfonyl)-*N*-methyl-3-[(6-{[5-(trifluoromethyl)-2-pyridinyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;
- 3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;
- 3-({6-[(5-cyano-2-pyridinyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;
- 2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazole-5-carboxylic acid;
- (2-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-1,3-thiazol-4-yl)acetic acid;
  - 1-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-N-methyl-1H-indole-6-sulfonamide;
- 3-{6-[(4-chlorophenyl)amino]-4-pyrimidinyl}-*N*-methyl-2-oxo-2,3-dihydro-1*H*-benzimidazole-5-sulfonamide:
- 3-{[6-({3-[6-(dimethylamino)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

*N*-methyl-3-({6-[(5-methyl-3-biphenylyl)amino]-4-pyrimidinyl}amino)benzenesulfonamide;

*N*-methyl-3-[(6-{[3-methyl-5-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-[(6-{[3'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-[(6-{[4'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino}-benzenesulfonamide;

*N*-methyl-3-{[6-({3-[6-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-4-biphenylcarboxamide;

*N*-methyl-3-{[6-({3-[5-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylcarboxamide;

*N*-methyl-3-{[6-({3'-[(methylsulfonyl)amino]-3-biphenylyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

3-[(6-{[4'-(dimethylamino)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({3-[4-(methyloxy)-3-pyridinyl]phenyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide:

*N*-(3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-4-biphenylyl)acetamide;

*N*-methyl-3-{[6-({4'-[(methylsulfonyl)amino]-3-biphenylyl}amino)-4-pyrimidinyl]amino}-benzenesulfonamide;

*N*-(3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylyl)acetamide;

*N*-methyl-3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-4-biphenylsulfonamide;

*N*-methyl-3'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylsulfonamide;

3-[(6-{[4-chloro-3-(3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

2'-chloro-5'-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-3-biphenylcarboxamide;

3-[(6-{[6-chloro-3'-(4-morpholinyl)-3-biphenylyl]amino}-4-pyrimidinyl)amino]-*N*-methylbenzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzoic acid;

[(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-

pyrimidinyl]amino}phenyl)oxy]acetic acid;

*N*,*N*-dimethyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*,*N*-dimethyl-2-[(3-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)oxy]acetamide;

*N*-(2-hydroxyethyl)-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*-methyl-3-{[6-({4-[(4-methyl-1-piperazinyl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-(1-methyl-4-piperidinyl)benzamide;

*N*-methyl-3-[(6-{[4-(1-piperazinylcarbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

*N*-methyl-3-[(6-{[4-({4-[2-(methyloxy)ethyl]-1-piperazinyl}carbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

 $4-\{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-N-[2-(methyloxy)ethyl]benzamide;$ 

4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-[3-(methyloxy)propyl]benzamide;

*N*-[2-(dimethylamino)ethyl]-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

N,N-diethyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*-methyl-3-[(6-{[4-(1-pyrrolidinylcarbonyl)phenyl]amino}-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-{[(3S)-3-(dimethylamino)-1-pyrrolidinyl]carbonyl}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-methyl-3-{[6-({4-[(4-methylhexahydro-1*H*-1,4-diazepin-1-yl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}benzenesulfonamide;

*N*-methyl-3-[(6-{[4-(4-thiomorpholinylcarbonyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-{[6-({4-[(4,4-difluoro-1-piperidinyl)carbonyl]phenyl}amino)-4-pyrimidinyl]amino}-*N*-methylbenzenesulfonamide;

3-({6-[(4-{[(3R)-3-(dimethylamino)-1-pyrrolidinyl]carbonyl}phenyl)amino]-4-pyrimidinyl}amino)-*N*-methylbenzenesulfonamide;

*N*-[2-(dimethylamino)ethyl]-*N*-methyl-4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}benzamide;

*N*-[2-(dimethylamino)ethyl]-*N*-methyl-4-[(6-{[5-[(methylamino)sulfonyl]-2-(methylthio)phenyl]amino}-4-pyrimidinyl)amino]benzamide;

*N*-[(4-{[6-({3-[(methylamino)sulfonyl]phenyl}amino)-4-pyrimidinyl]amino}phenyl)carbonyl]glycine;

*N*-methyl-3-[(6-{[3-(6-oxo-1,6-dihydro-3-pyridinyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(3-hydroxyphenyl)amino]-4-pyrimidinyl}amino)-N-methylbenzenesulfonamide;

*N*-methyl-4-(methylsulfonyl)-3-[(6-{[4-(trifluoromethyl)phenyl]amino}-4-pyrimidinyl)amino]benzenesulfonamide;

3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-*N*-methyl-4-(methylsulfonyl)benzenesulfonamide;

- 3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(isobutylsulfonyl)-Nmethylbenzenesulfonamide:
- 3-(6-(4-chlorophenylamino)pyrimidin-4-ylamino)-4-(ethylsulfonyl)-Nmethylbenzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-N-methyl-4-[(2,2,2-trifluoro-1methylethyl)oxy]benzenesulfonamide;
- 3-({6-[(4-chlorophenyl)amino]-4-pyrimidinyl}amino)-N-methyl-4-[(2,2,2-trifluoro-1methylethyl)oxy]benzenesulfonamide;
- 3-(\{6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl\amino)-N-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide; or
- 3-({6-[(5-chloro-2-pyridinyl)amino]-4-pyrimidinyl}amino)-N-methyl-4-[(2,2,2-trifluoro-1-methylethyl)oxy]benzenesulfonamide;

or a salt thereof.

- 12. A pharmaceutical composition comprising the compound or salt according to any one of claims 1-11 and one or more pharmaceutically-acceptable excipients.
- 13. A method for treating congestive heart failure comprising administering to a patient in need thereof an effective amount of the compound or salt according to any one of claims 1-11.
- 14. A method for treating congestive heart failure comprising administering to a patient in need thereof the pharmaceutical composition according to claim 12.
- 15. Use of a compound or salt thereof according to any one of claims 1 to 11 in preparation of a medicament for treating congestive heart failure in a patient in need thereof.
- 16. The compound according to claim 1 or claim 11, the method according to claim 13 or the use according to claim 15, substantially as hereinbefore described.