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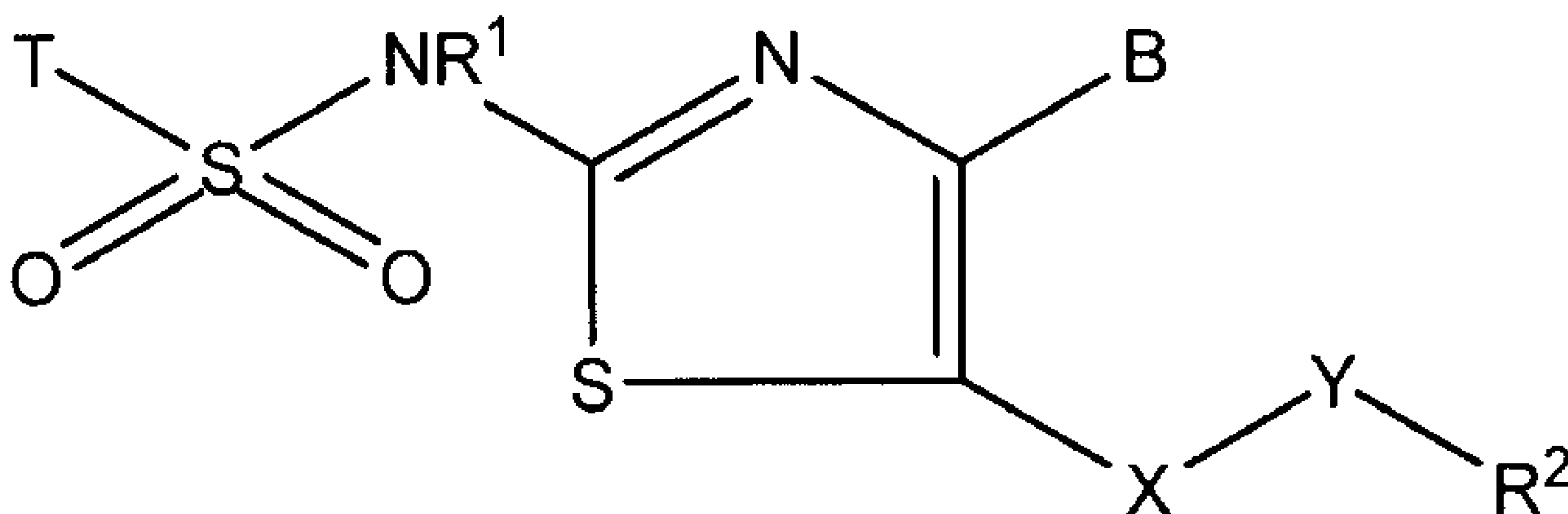
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(72) Inventeurs/Inventors:
BARF, TJEERD, SE;
EMOND, RIKARD, SE;
KURZ, GUIDO, SE;
VALLGARDA, JERK, SE;
NILSSON, MARIANNE, SE;
ZHANG, LIAN, SE

(73) Propriétaire/Owner:

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(54) Title: INHIBITORS OF 11-BETA-HYDROXY STEROID DEHYDROGENASE TYPE 1



(57) Abrégé/Abstract:

The present invention relates to compounds with the formula (I), and also to pharmaceutical compositions comprising the compounds, as well as to the use of the compounds in medicine and for the preparation of a medicament which acts on the human 11-b-hydroxysteroid dehydrogenase type 1 enzyme.

(73) Propriétaires(suite)/Owners(continued):BIOVITRUM AB, SE

(74) Agent: SMART & BIGGAR

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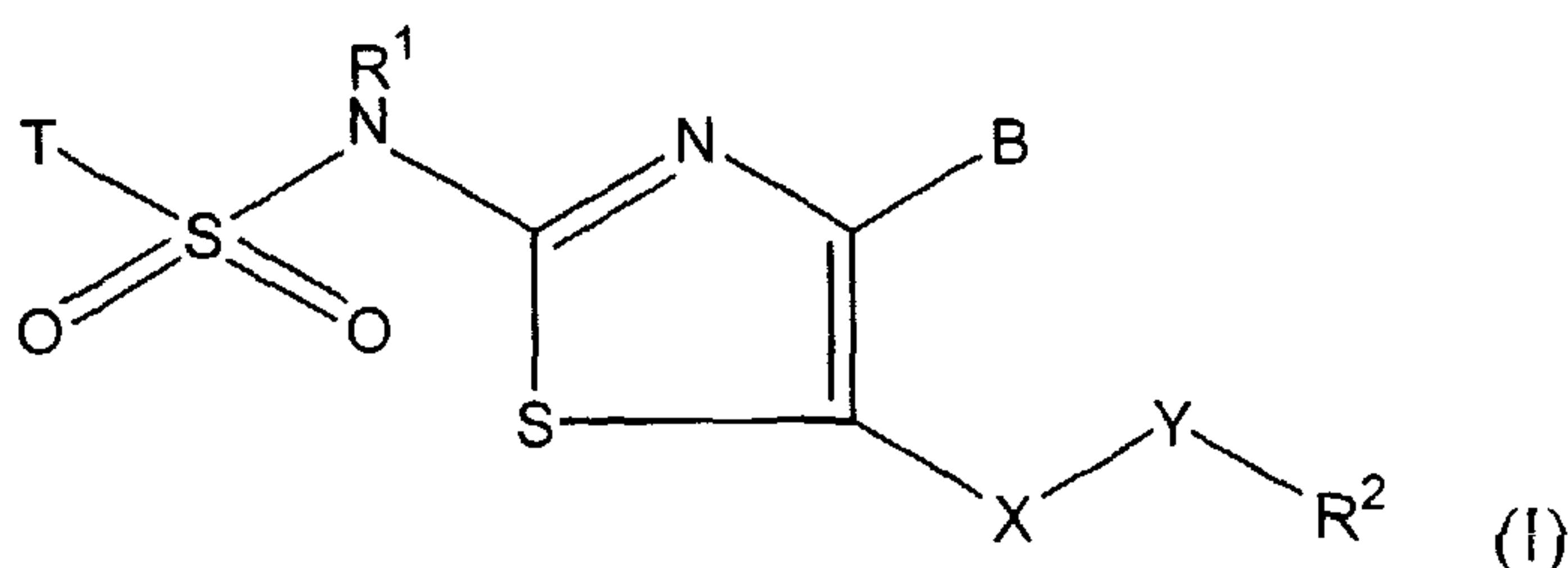
(72) Inventors; and

(75) Inventors/Applicants (for US only): **BAREF, Tjeerd** [NL/SE]; Marielund Labruden, S-755 97 Uppsala (SE). **EMOND, Rikard** [SE/SE]; Mörtgränd 5, S-133 43 Salt-sjöbaden (SE). **KURZ, Guido** [DE/SE]; Möregatan 10, 6 tr, S-118 27 Stockholm (SE). **VALLGÅRDA, Jerk** [SE/SE]; Kronparksvägen 15, S-757 52 Uppsala (SE). **NILSSON, Marianne** [SE/SE]; Pl 2654 Ubby, S-762 94 Rimbo (SE). **ZHANG, Lian** [CN/SE]; Törnrosavägen 29, S-151 37 Södertälje (SE).(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).**Published:**

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(54) Title: INHIBITORS OF 11-BETA-HYDROXY STEROID DEHYDROGENASE TYPE 1



(57) Abstract: The present invention relates to compounds with the formula (I), and also to pharmaceutical compositions comprising the compounds, as well as to the use of the compounds in medicine and for the preparation of a medicament which acts on the human 11-b-hydroxysteroid dehydrogenase type 1 enzyme.

WO 03/043999 A1

73529-289

INHIBITORS OF 11-BETA-HYDROXY STEROID DEHYDROGENASE

TYPE 1

TECHNICAL FIELD

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The present invention relates to novel compounds, to pharmaceutical compositions comprising the compounds, as well as to the use of the compounds in medicine and for the preparation of a medicament which acts on the human 11- β -hydroxysteroid dehydrogenase type 1 enzyme (11 β HSD1).

10

BACKGROUND

1. Glucocorticoids, diabetes and hepatic glucose production

15

It has been known for more than half a century that glucocorticoids have a central role in diabetes, e.g. the removal of the pituitary or the adrenal gland from a diabetic animal alleviates the most severe symptoms of diabetes and lowers the concentration of glucose in the blood (Long, C.D. and F.D.W. Leukins (1936) J. Exp. Med. 63: 465-490; Houssay, B.A. (1942) Endocrinology 30: 884-892). It is also well established that glucocorticoids enable the effect of glucagon on the liver.

20

The role of 11 β HSD1 as an important regulator of local glucocorticoid effect and thus of hepatic glucose production is well substantiated (see e.g. Jamieson et al. (2000) J. Endocrinol. 165: p. 685-692). The hepatic insulin sensitivity was improved in healthy human volunteers treated with the non-specific 11 β HSD1 inhibitor carbenoxolone (Walker, B.R. et al. (1995) J. Clin. Endocrinol. Metab. 80: 3155-3159). Furthermore, the expected mechanism has been established by different experiments with mice and rats.

25

These studies showed that the mRNA levels and activities of two key enzymes in hepatic glucose production were reduced, namely: the rate-limiting enzyme in gluconeogenesis, phosphoenolpyruvate carboxykinase (PEPCK), and glucose-6-phosphatase (G6Pase) catalyzing the last common step of gluconeogenesis and glycogenolysis. Finally, the blood glucose level and hepatic glucose production is reduced in mice having the 11 β HSD1 gene knocked-out. Data from this model also confirm that inhibition of 11 β HSD1 will not cause hypoglycemia, as predicted since the basal levels of PEPCK and G6Pase are regulated independently of glucocorticoids (Kotelevtsev, Y. et al., (1997) Proc. Natl. Acad. Sci. USA 94: 14924-14929).

FR 2,384,498 discloses compounds having a high hypoglycemic effect. Therefore, treatment of hyperglycemia with these compounds may lead to hypoglycemia.

2. Possible reduction of obesity and obesity related cardiovascular risk factors

Obesity is an important factor in syndrome X as well as in the majority (> 80%) of type 2 diabetic, and omental fat appears to be of central importance. Abdominal obesity is closely associated with glucose intolerance, hyperinsulinemia, hypertriglyceridemia, and other factors of the so-called syndrome X (e.g. raised blood pressure, decreased levels of HDL and increased levels of VLDL) (Montague & O'Rahilly, Diabetes 49: 883-888, 2000). Inhibition of the enzyme in pre-adipocytes (stromal cells) has been shown to decrease the rate of differentiation into adipocytes. This is predicted to result in diminished expansion (possibly reduction) of the omental fat depot, i.e. reduced central obesity (Bujalska, I.J., S. Kumar, and P.M. Stewart (1997) Lancet 349: 1210-1213).

Inhibition of 11 β HSD1 in mature adipocytes is expected to attenuate secretion of the plasminogen activator inhibitor 1 (PAI-1) – an independent cardiovascular risk factor (Halleux, C.M. et al. (1999) J. Clin. Endocrinol. Metab. 84: 4097-4105). Furthermore, there is a clear correlation between glucocorticoid “activity” and cardiovascular risk factors suggesting that a reduction of the glucocorticoid effects would be beneficial (Walker, B.R. et al. (1998) Hypertension 31: 891-895; Fraser, R. et al. (1999) Hypertension 33: 1364-1368).

Adrenalectomy attenuates the effect of fasting to increase both food intake and hypothalamic neuropeptide Y expression. This supports the role of glucocorticoids in promoting food intake and suggests that inhibition of 11 β HSD1 in the brain might

73529-289

increase satiety and therefore reduce food intake (Woods, S.C. et al. (1998) Science, 280: 1378-1383).

3. Possible beneficial effect on the pancreas

5

Inhibition of 11 β HSD1 in isolated murine pancreatic β -cells improves the glucose-stimulated insulin secretion (Davani, B. et al. (2000) J. Biol. Chem. 2000 Nov 10; 275(45): 34841-4). Glucocorticoids were previously known to reduce pancreatic insulin release *in vivo* (Billaudel, B. and B.C.J. Sutter (1979) Horm. Metab. Res. 11: 555-
10 560). Thus, inhibition of 11 β HSD1 is predicted to yield other beneficial effects for diabetes treatment, besides effects on liver and fat.

4. Possible beneficial effects on cognition and dementia

15

Stress and glucocorticoids influence cognitive function (de Quervain, D.J.-F., B. Roozendaal, and J.L. McGaugh (1998) Nature 394: 787-790). The enzyme 11 β HSD1 controls the level of glucocorticoid action in the brain and thus contributes to neurotoxicity (Rajan, V., C.R.W. Edwards, and J.R. Seckl, J. (1996) Neuroscience 16: 65-70; Seckl, J.R., Front. (2000) Neuroendocrinol. 18: 49-99). Significant
20 memory improvement in rats treated with a non-specific 11 β HSD1 inhibitor has been demonstrated. Based on the above and on the known effects of glucocorticoids in the brain, it may also be suggested that inhibiting 11 β HSD1 in the brain may result in reduced anxiety (Tronche, F. et al. (1999) Nature Genetics 23: 99-103). Thus, taken together, the hypothesis is that inhibition of 11 β HSD1 in the human
25 brain would prevent reactivation of cortisone into cortisol and protect against deleterious glucocorticoid-mediated effects on neuronal survival and other aspects of neuronal function, including cognitive impairment, depression, and increased appetite (previous section).

WO 99/02502 discloses 5HT₆ receptor antagonists for the treatment of CNS
30 disorders. Such antagonists of thiazole structure differ from the compounds according to the present invention in that the former have an aryl group in 4-position. Furthermore, nothing is said about the activity on 11 β HSD1.

5. Possible use of immuno-modulation using 11 β HSD1 inhibitors

The general perception is that glucocorticoids suppress the immune system. But in fact there is a dynamic interaction between the immune system and the HPA

5 (hypothalamo-pituitary-adrenal) axis (Rook, G.A.W. (1999) Baillière's Clin. Endocrinol. Metab. 13: 576-581). The balance between the cell-mediated response and humoral responses is modulated by glucocorticoids. A high glucocorticoid activity, such as at a state of stress, is associated with a humoral response. Thus, inhibition of the enzyme 11 β HSD1 has been suggested as a means of shifting the response towards a cell-based
10 reaction.

In certain disease states, including tuberculosis, lepra and psoriasis the immune reaction is normally biased towards a humoral response when in fact the appropriate response would be cell based. Temporal inhibition of 11 β HSD1, local or systemic, might be used to push the immune system into the appropriate response (Mason, D. (1991)
15 Immunology Today 12: 57-60; Rook et al., *supra*).

An analogous use of 11 β HSD1 inhibition, in this case temporal, would be to booster the immune response in association with immunization to ensure that a cell based response would be obtained, when desired.

20 6. Reduction of intraocular pressure

Recent data suggest that the levels of the glucocorticoid target receptors and the 11 β HSD enzymes determines the susceptibility to glaucoma (Stokes, J. et al. (2000) Invest. Ophthalmol. 41: 1629-1638). Further, inhibition of 11 β HSD1 was recently
25 presented as a novel approach to lower the intraocular pressure (Walker E. A. et al, poster P3-698 at the Endocrine society meeting June 12-15, 1999, San Diego). Ingestion of carbenoxolone, a non-specific inhibitor of 11 β HSD1, was shown to reduce the intraocular pressure by 20% in normal subjects. In the eye, expression of 11 β HSD1 is confined to basal cells of the corneal epithelium and the non-pigmented epithelium of the cornea
30 (the site of aqueous production), to ciliary muscle and to the sphincter and dilator muscles of the iris. In contrast, the distant isoenzyme 11 β HSD2 is highly expressed in the non-pigmented ciliary epithelium and corneal endothelium. None of the enzymes is found at the trabecular meshwork, the site of drainage. Thus, 11 β HSD1 is suggested to have a role

in aqueous production, rather than drainage, but it is presently unknown if this is by interfering with activation of the glucocorticoid or the mineralocorticoid receptor, or both.

7. Reduced osteoporosis

5

Glucocorticoids have an essential role in skeletal development and function but are detrimental in excess. Glucocorticoid-induced bone loss is derived, at least in part, via inhibition of bone formation, which includes suppression of osteoblast proliferation and collagen synthesis (Kim, C.H., S.L. Cheng, and G.S. Kim (1999) J. Endocrinol. 162: 371-379). The negative effect on bone nodule formation could be blocked by the non-specific inhibitor carbenoxolone suggesting an important role of 11 β HSD1 in the glucocorticoid effect (Bellows, C.G., A. Ciaccia, and J.N.M. Heersche, (1998) Bone 23: 119-125). Other data suggest a role of 11 β HSD1 in providing sufficiently high levels of active glucocorticoid in osteoclasts, and thus in augmenting bone resorption (Cooper, M.S. et al. (2000) Bone 27: 375-381). Taken together, these different data suggest that inhibition of 11 β HSD1 may have beneficial effects against osteoporosis by more than one mechanism working in parallel.

20

8. Reduction of hypertension

Bile acids inhibit 11 β -hydroxysteroid dehydrogenase type 2. This results in a shift in the overall body balance in favour of cortisol over cortisone, as shown by studying the ratio of the urinary metabolites (Quattropani C, Vogt B, Odermatt A, Dick B, Frey BM, Frey FJ. 2001. J Clin Invest. Nov;108(9):1299-305. "Reduced activity of 11beta-hydroxysteroid dehydrogenase in patients with cholestasis"). Reducing the activity of 11 β HSD1 in the liver by a selective inhibitor is predicted to reverse this imbalance, and acutely counter the symptoms such as hypertension, while awaiting surgical treatment removing the biliary obstruction.

30

WO 99/65884 discloses carbon substituted aminothiazole inhibitors of cyclin dependent kinases. These compounds may e.g. be used against cancer, inflammation and arthritis. US 5,856,347 discloses an antibacterial preparation or bactericide comprising 2-aminothiazole derivative and/or salt thereof. Further, US 5,403,857 discloses

benzenesulfonamide derivatives having 5-lipoxygenase inhibitory activity. Additionally, tetrahydrothiazolo[5,4-c]pyridines are disclosed in: Analgesic tetrahydrothiazolo[5,4-c]pyridines. Fr. Addn. (1969), 18 pp, Addn. to Fr. 1498465. CODEN: FAXXA3; FR 94123 19690704 CAN 72:100685 AN 1970:100685 CAPLUS and 4,5,6,7-

5 Tetrahydrothiazolo[5,4-c]pyridines. Neth. Appl. (1967), 39 pp. CODEN: NAXXAN NL 6610324 19670124 CAN 68:49593, AN 1968: 49593 CAPLUS. However, none of the above disclosures discloses the compounds according to the present invention, or their use for the treatment of diabetes, obesity, glaucoma, osteoporosis, cognitive disorders, immune disorders, depression, and hypertension.

10 US 5,594,021 and US 6,030,991 disclose compounds inhibiting the binding of an endothelin peptide to an endothelin receptor. Such compounds of thiazole structure differ from the compounds according to the present invention in that the former are unsubstituted in both 4- and 5-position. Furthermore, nothing is said about the activity on 11 β HSD1.

15 WO 01/54691 discloses thiazole compounds as antimicrobial agents. Only the antibacterial effect of such compounds has been shown in the pharmacological examples. These compounds differ from the compounds according to the present invention in that the former either are unsubstituted in 5-position or have a free amino group in 2-position.

US 5,783,597 discloses thiophene derivatives as inhibitors of PGE₂ and LTB₄.

20 Nothing is said about the activity on 11 β HSD1.

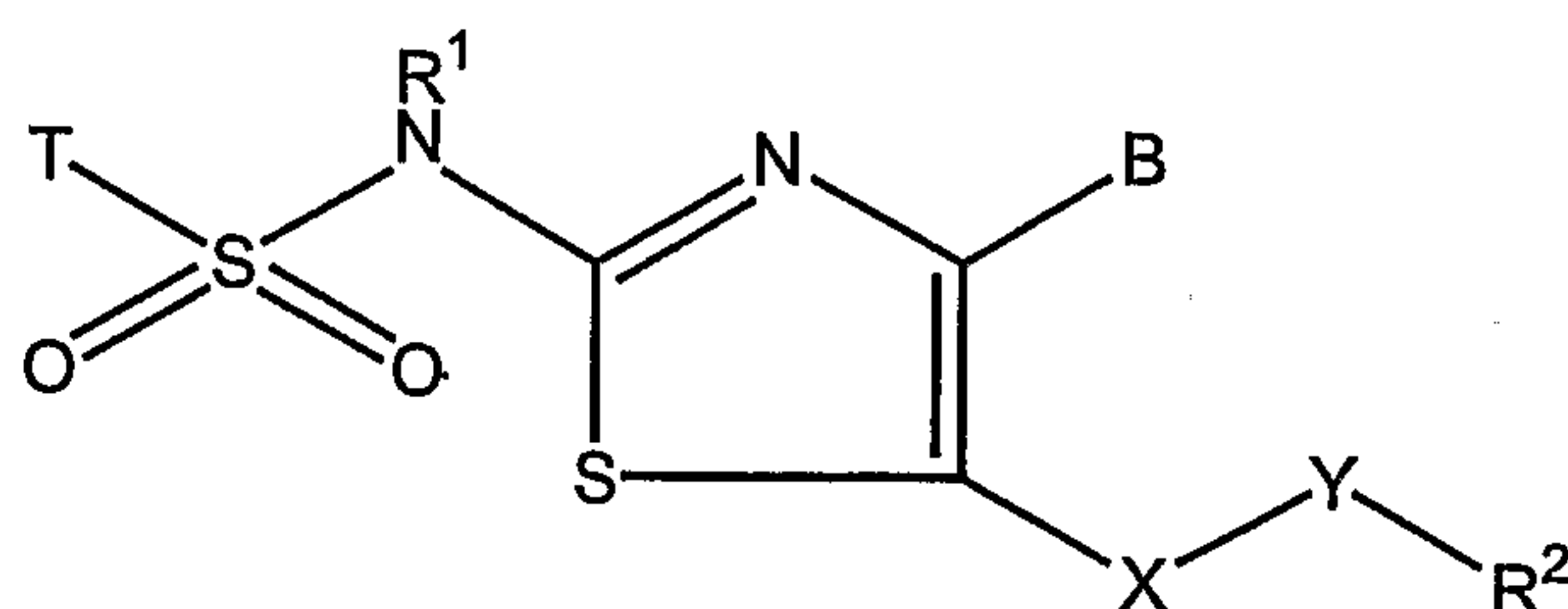
Consequently, there is a need of new compounds that are useful in the treatment of diabetes, obesity, glaucoma, osteoporosis, cognitive disorders, immune disorders, depression, and hypertension.

25

SUMMARY OF THE INVENTION

The compounds according to the present invention solves the above problems and embraces a novel class of compounds which has been developed and which inhibit the human 11- β -hydroxysteroid dehydrogenase type 1 enzyme (11- β -HSD₁), and may
30 therefore be of use in the treating disorders such as diabetes, obesity, glaucoma, osteoporosis, cognitive disorders, immune disorders, and hypertension.

One object of the present invention is a compound of formula (I)



wherein

- 5 T is an aryl ring or heteroaryl ring, optionally independently substituted by [R]_n, wherein n is an integer 0-5, and R is hydrogen, aryl, heteroaryl, a heterocyclic ring, optionally halogenated C₁₋₆-alkyl, optionally halogenated C₁₋₆-alkoxy, C₁₋₆-alkylsulfonyl, carboxy, cyano, nitro, halogen, aryloxy, arylsulfonyl, arylamino, wherein aryl, heteroaryl and aryloxy residues and heterocyclic rings can further be optionally substituted in one or
10 more positions independently of each other by C₁₋₆-acyl, C₁₋₆-alkylthio, cyano, nitro, hydrogen, halogen, optionally halogenated C₁₋₆-alkyl, optionally halogenated C₁₋₆-alkoxy, amide which is optionally mono- or di-substituted, (benzoylamino)methyl, carboxy, 2-thienylmethylamino or ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl); or
15 T is selected from 5-(dimethylamino)-1-naphthyl and phenyl substituted with one or more of benzeneamino, benzylamino, 3-pyridylmethylamino and 2-thienylmethylamino;

R¹ is hydrogen or C₁₋₆-alkyl;

X is CH₂ or CO;

Y is CH₂, CO or a single bond;

B is hydrogen, C₁₋₆-alkyl or dimethylaminomethyl;

- 20 R² is selected from C₁₋₆-alkyl, azido, arylthio, heteroarylthio, halogen, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl, 3-oxo-4-morpholinolinylmethylene, C₁₋₆-alkoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl;

- NR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen, ethyl, isopropyl, n-propyl, optionally halogenated C₁₋₆-alkylsulfonyl, C₁₋₆-alkoxy, 2-methoxyethyl, 2-hydroxyethyl, 1-methylimidazolylsulfonyl, C₁₋₆-acyl, cyclohexylmethyl, cyclopropanecarbonyl, aryl, optionally halogenated arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl, N-carbethoxypiperidyl, or C₁₋₆-alkyl substituted with one or
25 more aryl, heterocyclic or heteroaryl, or

NR³R⁴ represent together heterocyclic systems which can be imidazole, piperidine, pyrrolidine, piperazine, morpholine, oxazepine, oxazole, thiomorpholine, 1,1-dioxidothiomorpholine, 2-(3,4-dihydro-2(1H)isoquinoliny), (1S,4S)-2-oxa-5-azabicyclo[2.2.1]hept-5-yl, which heterocyclic systems can be optionally substituted by

5 C₁₋₆-alkyl, C₁₋₆-acyl, hydroxy, oxo, t-butoxycarbonyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen, C₁₋₆-alkyl or form together with the N-atom to which they are attached morpholinyl;

R⁵O, wherein R⁵ is hydrogen, optionally halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl, C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, 2-carbomethoxyphenyl;

10 or a salt, hydrate or solvate thereof;

with the proviso that when:

X is CH₂, Y is CH₂, then R² is not methyl, ethyl, diethylamino, 1-pyrrolidinyl, and 1-piperidinyl;

X is CH₂, Y is CH₂, R² is morpholinyl, then T is not 4-methylphenyl;

15 X is CH₂, Y is CO, then R² is not hydroxy;

X is CH₂, Y is a single bond, then R² is not ethyl, n-propyl;

X is CH₂, Y is a single bond, R² is methyl, B is methyl, then T is not 3-chloro-2-methylphenyl;

X is CO, Y is a single bond, then R² is not methyl;

20 X is CO, Y is a single bond, R² is ethoxy, B is methyl, then T is not 3-chloro-2-methylphenyl, 1,1'-biphenyl-4-yl, 4-n-propylphenyl, 2,4-dichloro-6-methylphenyl, and 2,4,6-trichlorophenyl.

It is preferred that:

25 T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinoliny;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, pyridyl;

30 phenyl substituted with one or more of 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl,

2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or

R^1 is hydrogen or methyl;

X is CH_2 or CO;

Y is CH_2 , CO or a single bond;

B is hydrogen, methyl or dimethylaminomethyl;

R^2 is selected from

n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR^3R^4 , wherein R^3 and R^4 are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

NR^3R^4 represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinolyl), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl, 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl, piperazinyl; piperidinyl; pyrrolidinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

$CONR^3R^4$, wherein R^3 and R^4 are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl;

R^5O , wherein R^5 is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl;

with the proviso that when:

X is CH_2 , Y is CH_2 , then R^2 is not diethylamino, 1-pyrrolidinyl, and 1-piperidinyl;

X is CH_2 , Y is CH_2 , R^2 is morpholinyl, then T is not 4-methylphenyl;

X is CH₂, Y is CO, then R² is not hydroxy;

X is CH₂, Y is a single bond, then R² is not n-propyl;

X is CO, Y is a single bond, R² is ethoxy, B is methyl, then T is not 3-chloro-2-methylphenyl, 1,1'-biphenyl-4-yl, 4-n-propylphenyl, 2,4-dichloro-6-methylphenyl, and
 5 2,4,6-trichlorophenyl.

When X is CH₂ and Y is CH₂, then it is preferred that:

R² is selected from n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

10 NR³R⁴, wherein:

(i) R³ and R⁴ are either each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl,
 15 (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

(ii) R³ is ethyl and R⁴ is selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl;

25 NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinoliny), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazoliny, 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazoliny, piperazinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

30 OCONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together morpholinyl;

R^5O , wherein R^5 is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl.

When X is CH_2 , Y is CH_2 , and NR^3R^4 represent together morpholinyl, then it is preferred that T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, pyridyl;

phenyl substituted with either:

- (i) one or more of 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ($\{[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino\}$ carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or
- (ii) one or more of methyl in any of positions 2, 3, 5 or 6.

When X is CH_2 and Y is CO, then it is preferred that R^2 is selected from n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolinylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR^3R^4 , wherein R^3 and R^4 are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinoliny), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazoliny, 3-oxomorpholinyl, 3-oxo-1,4-oxazepiny, 2-oxooxazoliny, piperazinyl; piperidinyl; pyrrolidinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl;

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl.

When X is CH₂ and Y is a single bond, then it is preferred that R² is selected from azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolinylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR³R⁴, wherein R³ and R⁴ are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinoliny), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazoliny, 3-oxomorpholinyl, 3-oxo-1,4-oxazepiny, 2-oxooxazoliny, piperazinyl; piperidinyl; pyrrolidinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl;

R^5O , wherein R^5 is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl.

When X is CH_2 , Y is a single bond, R^2 is methyl and B is methyl, then it is preferred that T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, pyridyl;

phenyl substituted with either:

- (i) one or more of 3-acetylamino, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ($\{[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino\}$ carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or
- (ii) one or more of 3-acetylamino, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ($\{[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino\}$ carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or
- (iii) one or more chloro and, in positions 3, 4, 5, one or more methyl.

When X is CO and Y is a single bond, then it is preferred that R^2 is selected from n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene,

ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR³R⁴, wherein R³ and R⁴ are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinolinyl), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl, 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl, piperazinyl; piperidinyl; pyrrolidinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl;

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl;

When X is CO and Y is a single bond and R² is ethoxy, then it is preferred that T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, pyridyl;

phenyl substituted with either:

- (i) one or more of 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino} carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-

furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl;

- (ii) one or more of methyl;
- (iii) one or more of chloro, phenyl and n-propyl in either position, and methyl in any of positions 3, 4 or 5;
- (iv) one or more of n-propyl and phenyl in any of positions 2, 3, 5 or 6.

The following compounds are especially preferred:

- ethyl (2-{[(2,4-dichloro-5-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2,4-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2,5-dichlorothien-3-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl {2-[(1-naphthylsulfonyl)amino]-1,3-thiazol-5-yl} acetate
- ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methylacetamide
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethylacetamide
- ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl} acetate
- ethyl (2-{[(4-nitrophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 3-chloro-N-[5-(2-hydroxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide
- 3-chloro-N-[5-(2-ethoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide
- ethyl (2-{[(3-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-isopropylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl [2-({[4-({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino} carbonyl)phenyl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate

- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide
- ethyl [2-({[2-(trifluoromethyl)phenyl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate
- ethyl [2-({[3-(trifluoromethyl)phenyl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate
- 5 • ethyl [2-({[4-(trifluoromethyl)phenyl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate
- methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate (Example 2)
- 3-chloro-N-[5-(2-isopropoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide
- 3-chloro-N-[5-(2-methoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide
- 10 • 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl methanesulfonate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide
- 3-chloro-N-{5-[2-(2-fluoroethoxy)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide
- 15 • 3-chloro-2-methyl-N-{5-[2-(2,2,2-trifluoroethoxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl acetate
- 3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide (Example 1)
- 20 • N-[5-(2-bromoethyl)-1,3-thiazol-2-yl]-3-chloro-2-methylbenzenesulfonamide
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl morpholine-4-carboxylate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl diethylcarbamate
- 25 • 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl propionate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-methylpropanoate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-furoate
- 30 • 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl benzoate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methoxy-N-methylacetamide

- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl ethylcarbamate
- N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-ethylacetamide
- 5 • 3-chloro-2-methyl-N-[5-(2-oxopentyl)-1,3-thiazol-2-yl]benzenesulfonamide
- N-{5-[2-(1,1-dioxidothiomorpholin-4-yl)-2-oxoethyl]-1,3-thiazol-2-yl}-4-propylbenzenesulfonamide
- 2,4-dichloro-6-methyl-N-{5-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 10 • 3-chloro-2-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 2,4-dichloro-6-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- 15 • N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide
- N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- 20 • N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide
- 2,4-dichloro-6-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- 25 • N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide
- 2,4-dichloro-6-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- ethyl oxo(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)(oxo)acetate
- 30 • ethyl oxo(2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}(oxo)acetate

- 3-chloro-2-methyl-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 2,4,6-trichloro-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 5 • 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-ethyl-N-methylacetamide
- N-ethyl-N-methyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide
- 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide
- 10 • N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-isopropyl-N-methylacetamide
- 15 • 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diethylacetamide
- N,N-diethyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide
- 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide
- ethyl (2-{[(4-bromo-5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 20 • ethyl (2-{[(3-bromo-5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl {2-[(5-[1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl} acetate
- ethyl {2-[(5-[2-(methylthio)pyrimidin-4-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl} acetate
- 25 • 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diisopropylacetamide
- N,N-diisopropyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide
- 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide
- 30 • methyl (4-methyl-2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate

- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-dipropylacetamide
- 3-chloro-2-methyl-N-[5-(2-oxo-2-piperazin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 5 • 4-bromo-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-2,4-bis(trifluoromethyl)benzenesulfonamide
- 2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-
- 10 (trifluoromethoxy)benzenesulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-phenoxybenzenesulfonamide
- ethyl (2-{[(2,3,4-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-bromo-2,5-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 15 • ethyl [2-({[4-(trifluoromethoxy)phenyl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate
- ethyl [2-({[4-(phenylsulfonyl)thien-2-yl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate
- ethyl [2-({[5-(phenylsulfonyl)thien-2-yl]sulfonyl} amino)-1,3-thiazol-5-yl]acetate
- ethyl (2-{[(2,6-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 20 • tert-butyl 4-[(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetyl]piperazine-1-carboxylate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-dimethylacetamide
- 3-chloro-2-methyl-N-{5-[2-(pyridin-3-yloxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 25 • 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-isopropyl-N-methylacetamide
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide
- 30 • 3-chloro-2-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- ethyl (2-{[(4-bromo-2-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate

- 3-chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide (Example 4)
- methyl (2-{[(4-chlorophenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-yl)acetate
- methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-yl)acetate
- 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide (Example 5)
- 3-chloro-2-methyl-N-[5-(2-oxo-2-pyrrolidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- ethyl (2-{[(3-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(5-fluoro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 3-chloro-2-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- ethyl (2-{[(3,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(3,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 3-chloro-2-methyl-N-[5-(morpholin-4-ylmethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 3-chloro-N-{5-[2-(1H-imidazol-1-yl)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide
- N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]acetamide
- ethyl [2-(2-{[2-methyl-4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate
- ethyl (2-{[(2,3,4-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2,4,6-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- 3-chloro-2-methyl-N-(5-{2-[(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide
- ethyl (2-{[(5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(2-chloro-4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(5-isoxazol-3-ylthien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate
- ethyl (2-{[(4-phenoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate

- ethyl [2-([2,4-bis(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate
- 3-chloro-2-methyl-N-{5-[2-(3-oxo-1,4-oxazepan-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 5 • 3-chloro-2-methyl-N-{5-[2-(2-oxopyrrolidin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 3-chloro-2-methyl-N-(5-{2-[methyl(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide
- 10 • N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-methylcyclopropanecarboxamide
- 3-chloro-2-methyl-N-{5-[2-(4-methyl-2-oxopiperazin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 3-chloro-2-methyl-N-[5-(2-{[(trifluoromethyl)sulfonyl]amino}ethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 15 • 2,4-dichloro-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 2,4-dichloro-6-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide
- 4-(2-furyl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 20 • 5'-fluoro-2'-methoxy-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- 4-(5-methylthien-2-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide
- 25 • 3'-acetyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4'-(trifluoromethoxy)-1,1'-biphenyl-4-sulfonamide
- 3',4'-dichloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- 30 • 4-(1,3-benzodioxol-5-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide

- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-pyridin-4-ylbenzenesulfonamide
- N-[4'-([5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino)sulfonyl]-1,1'-biphenyl-3-yl]acetamide
- 5 • N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-3-ylbenzenesulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-2-ylbenzenesulfonamide
- 4'-([5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino)sulfonyl)-1,1'-biphenyl-4-carboxylic acid
- 10 • 4'-(methylthio)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3',5'-bis(trifluoromethyl)-1,1'-biphenyl-4-sulfonamide
- 15 • 4'-chloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide
- N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3'-nitro-1,1'-biphenyl-4-sulfonamide
- isopropyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate

20 Another object of the present invention is a compound as described above for medical use.

Another object of the present invention is a method for the treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, virus diseases or inflammatory disorders without causing hypoglycemia and to achieve immuno-

25 modulation, preferably tuberculosis, lepra, and psoriasis, said method comprising administering to a mammal, including a human, in need of such treatment (e.g., identified as in need thereof) an effective amount of a compound of formula (I) or a composition having a compound of formula (I) in it:

30 wherein

T is an aryl ring or heteroaryl ring, optionally independently substituted by [R]_n, wherein n is an integer 0-5, and R is hydrogen, aryl, heteroaryl, a heterocyclic ring, optionally halogenated C₁₋₆-alkyl, optionally halogenated C₁₋₆-alkoxy, C₁₋₆-alkylsulfonyl,

carboxy, cyano, nitro, halogen, amine which is optionally mono- or di-substituted, amide which is optionally mono- or di-substituted, aryloxy, arylsulfonyl, arylamino, wherein aryl, heteroaryl and aryloxy residues and heterocyclic rings can further be optionally substituted in one or more positions independently of each other by C₁₋₆-acyl, C₁₋₆-alkylthio, cyano, nitro, hydrogen, halogen, optionally halogenated C₁₋₆-alkyl, optionally halogenated C₁₋₆-alkoxy, amide which is optionally mono- or di-substituted, (benzoylamino)methyl, carboxy, 2-thienylmethylamino or ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino} carbonyl);

R¹ is hydrogen or C₁₋₆-alkyl;

X is CH₂ or CO;

Y is CH₂, CO or a single bond;

B is hydrogen, C₁₋₆-alkyl or dimethylaminomethyl;

R² is selected from C₁₋₆-alkyl, azido, arylthio, heteroarylthio, halogen, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl, 3-oxo-4-morpholinolinylmethylene, C₁₋₆-alkoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl;

NR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen, C₁₋₆-alkyl, optionally halogenated C₁₋₆-alkylsulfonyl, C₁₋₆-alkoxy, 2-methoxyethyl, 2-hydroxyethyl, 1-methylimidazolylsulfonyl, C₁₋₆-acyl, cyclohexylmethyl, cyclopropanecarbonyl, aryl, optionally halogenated arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl, N-carbethoxypiperidyl or C₁₋₆-alkyl substituted with one or more aryl, heterocyclic or heteroaryl, or

NR³R⁴ represent together heterocyclic systems which can be imidazole, piperidine, pyrrolidine, piperazine, morpholine, oxazepine, oxazole, thiomorpholine, 1,1-dioxidothiomorpholine, 2-(3,4-dihydro-2(1H)isoquinoliny), (1S,4S)-2-oxa-5-azabicyclo[2.2.1]hept-5-yl, which heterocyclic systems can be optionally substituted by C₁₋₆-alkyl, C₁₋₆-acyl, hydroxy, oxo, t-butoxycarbonyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen, C₁₋₆-alkyl or form together with the N-atom to which they are attached morpholiny;

R⁵O, wherein R⁵ is hydrogen, optionally halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl, C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, 2-carbomethoxyphenyl;

or a salt, hydrate or solvate thereof;

with the proviso that when:

X is CH₂, Y is CH₂, then R² is not methyl and ethyl;

X is CH₂, Y is a single bond, then R² is not ethyl and n-propyl;

X is CH₂, Y is a single bond, R² is methyl, B is methyl, then T is not 3-chloro-2-methylphenyl;

X is CO, Y is a single bond, then R² is not methyl;

X is CO, Y is a single bond, R² is ethoxy, B is methyl, then T is not 3-chloro-2-methylphenyl, 1,1'-biphenyl-4-yl, 4-n-propylphenyl, 2,4-dichloro-6-methylphenyl, and 2,4,6-trichlorophenyl.

In another aspect, this invention features a method for inhibiting a human 11- β -hydroxysteroid dehydrogenase type 1 enzyme. The method includes administering to a subject (e.g., mammal, human, or animal) in need thereof (e.g., identified as in need thereof) an effective amount of a compound of any of the formulae delineated herein or a composition comprising any of the formulae herein.

The present invention also features a method for treating 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorders. The method includes administering to a subject (e.g., mammal, human, or animal) in need thereof (e.g., identified as in need thereof) an effective amount of a compound of any of the formulae delineated herein or a composition comprising any of the formulae delineated herein. The 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder is any disorder or symptom wherein the 11- β -hydroxysteroid dehydrogenase type 1 enzyme is involved in the process or presentation of the disorder or the symptom. The 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorders include, but are not limited to, diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, virus diseases, inflammatory disorders, and immuno-modulation. Preferred examples of immuno-modulation are tuberculosis, lepra, and psoriasis. When the disorder is hyperglycemia, the treatment thereof does not cause hypoglycemia.

The methods delineated herein can also include the step of identifying that the subject is in need of treatment of diseases or disorders described above. The identification can be in the judgment of a subject or a health professional and can be subjective (e.g., opinion) or objective (e.g., measurable by a test or a diagnostic method).

These compounds may also be used in the manufacture of a medicament for the prevention, management or treatment of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, virus diseases or inflammatory disorders without causing hypoglycemia and

to achieve immuno-modulation. Preferred examples of immuno-modulation are tuberculosis, lepra, and psoriasis.

It is preferred that:

5 T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinoliny;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl,
10 phenylsulfonyl, pyridyl;

phenyl substituted with one or more of acetilamino, 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino} carbonyl), fluoro, 5-fluoro-2-methoxyphenyl,
15 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino,
20 trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or

R¹ is hydrogen or methyl;

X is CH₂ or CO;

Y is CH₂, CO or a single bond;

B is hydrogen, methyl or dimethylaminomethyl;

25 R² is selected from

n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinoliny-methylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR³R⁴, wherein R³ and R⁴ are each independently selected from acetyl,
30 benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-

phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinoliny), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazoliny, 3-oxomorpholinyl, 3-oxo-1,4-oxazepiny, 2-oxooxazoliny, piperazinyl; piperidinyl; pyrrolidinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

10 OCONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl;

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl;

15 with the proviso that when:

X is CH₂, Y is a single bond, then R² is not n-propyl;

X is CO, Y is a single bond, R² is ethoxy, B is methyl, then T is not 3-chloro-2-methylphenyl, 1,1'-biphenyl-4-yl, 4-n-propylphenyl, 2,4-dichloro-6-methylphenyl, and 2,4,6-trichlorophenyl.

20 When X is CH₂ and Y is CH₂, then it is preferred that:

R² is selected from n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolinylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR³R⁴, wherein R³ and R⁴ are either each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinoliny), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-

bicyclo[2.2.1]hept-5-yl, 2-oxoimidazoliny, 3-oxomorpholiny, 3-oxo-1,4-oxazepiny, 2-oxooxazoliny, piperaziny; piperidiny; pyrrolidiny; pyrrolidony, thiomorpholiny; 1,1-dioxido-thiomorpholiny;

5 OCONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together morpholiny;

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridiny, 2,2,2-trifluoroethyl.

10 When X is CH₂ and Y is a single bond, then it is preferred that R² is selected from azido, bromo, chloro, 2-pyridinylsulfany, 3-oxo-4-morpholinolinylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

15 NR³R⁴, wherein R³ and R⁴ are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

20 NR³R⁴ represent together 4-acetylpiperaziny, 4-t-butoxycarbonylpiperaziny, 2-(3,4-dihydro-2(1H)isoquinoliny), (2R,6S)-2,6-dimethylmorpholiny, (2R)-2,4-dimethyl-1-piperaziny, 2-hydroxy-3-oxomorpholiny, imidazolyl, 2-methyl-3-oxomorpholiny, 4-methyl-2-oxopiperaziny, 4-methylpiperaziny, morpholiny, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazoliny, 3-oxomorpholiny, 3-oxo-1,4-oxazepiny, 2-oxooxazoliny, piperaziny; piperidiny; pyrrolidiny; pyrrolidony, thiomorpholiny; 1,1-dioxido-thiomorpholiny;

OCONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholiny;

30 R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridiny, 2,2,2-trifluoroethyl.

When X is CH₂, Y is a single bond, R² is methyl and B is methyl, then it is preferred that T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-

benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, pyridyl;

phenyl substituted with either:

- (i) one or more of 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or
- (ii) one or more of 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl; or
- (iii) one or more chloro and, in positions 3, 4, 5, one or more methyl.

When X is CO and Y is a single bond, then it is preferred that R² is selected from n-propyl, azido, bromo, chloro, 2-pyridinylsulfanyl, 3-oxo-4-morpholinolinylmethylene, ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl;

NR³R⁴, wherein R³ and R⁴ are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl, cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-

furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl, trifluoromethylsulfonyl, N-carbethoxypiperidyl; or

5 NR³R⁴ represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinolinyl), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl, imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl, 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl, piperazinyl; piperidinyl; pyrrolidinyl; pyrrolidonyl, thiomorpholinyl; 1,1-dioxido-thiomorpholinyl;

OCOR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl;

15 R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, 2,2,2-trifluoroethyl;

When X is CO and Y is a single bond and R² is ethoxy, then it is preferred that T is selected from 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, pyridyl;

phenyl substituted with either:

25 (i) one or more of acetilamino, 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino} carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl, 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, trifluoromethyl;

- (ii) one or more of methyl;
- (iii) one or more of chloro, phenyl and n-propyl in either position, and methyl in any of positions 3, 4 or 5;
- (iv) one or more of n-propyl and phenyl in any of positions 2, 3, 5 or 6.

5 Specific examples of compounds according to the present invention are given above and also the following compound:

(2-[[[3-chloro-2-methylphenyl)sulfonyl]amino]-1,3-thiazol-5-yl)acetic acid
(Example 3).

Another object of the present invention is a pharmaceutical composition
10 comprising at least one compound of formula (I) as defined above, and a pharmaceutically acceptable carrier.

Also within the scope of this invention is a method for making a compound of formula (I). The method includes taking any intermediate compound delineated herein, reacting it with any one or more reagents to form a compound of formula (I) including
15 any processes specifically delineated herein.

Other features and advantages of the invention will be apparent from the detailed description and the claims.

DETAILED DESCRIPTION OF THE INVENTION

20

The compounds according to the present invention may be used in several indications which involve 11- β -hydroxysteroid dehydrogenase type 1 enzyme. Thus, the compounds according to the present invention may be used against dementia (see WO97/07789), osteoporosis (see Canalis E 1996, Mechanisms of glucocorticoid action in
25 bone: implications to glucocorticoid-induced osteoporosis, Journal of Clinical Endocrinology and Metabolism, 81, 3441-3447) and may also be used disorders in the immune system (see Franchimont et al, "Inhibition of Th1 immune response by glucocorticoids: dexamethasone selectively inhibits IL-12-induced Stat 4 phosphorylation in T lymphocytes", The journal of Immunology 2000, Feb 15, vol 164 (4), pages 1768-
30 74) and also in the above listed indications.

The various terms used, separately and in combinations, in the above definition of the compounds having the formula (I) will be explained.

The term "aryl" in the present description is intended to include aromatic rings (monocyclic or bicyclic) having from 6 to 10 ring carbon atoms, such as phenyl (Ph) and naphthyl, which optionally may be substituted by C₁₋₆-alkyl. Examples of substituted aryl groups are benzyl, and 2-methylphenyl.

5 The term "heteroaryl" means in the present description a monocyclic, bi- or tricyclic aromatic ring system (only one ring need to be aromatic) having from 5 to 14, preferably 5 to 10 ring atoms such as 5, 6, 7, 8, 9 or 10 ring atoms (mono- or bicyclic), in which one or more of the ring atoms are other than carbon, such as nitrogen, sulfur, oxygen and selenium as part of the ring system. Examples of such heteroaryl rings are
 10 pyrrole, imidazole, thiophene, furan, thiazole, isothiazole, thiadiazole, oxazole, isoxazole, oxadiazole, pyridine, pyrazine, pyrimidine, pyridazine, pyrazole, triazole, tetrazole, chroman, isochroman, quinoline, quinoxaline, isoquinoline, phthalazine, cinnoline, quinazoline, indole, isoindole, indoline, isoindoline, benzothiophene, benzofuran, isobenzofuran, benzoxazole, 2,1,3-benzoxadiazole, benzothiazole, 2,1,3-benzothiazole,
 15 2,1,3-benzoselenadiazole, benzimidazole, indazole, benzodioxane, indane, 1,2,3,4-tetrahydroquinoline, 3,4-dihydro-2*H*-1,4-benzoxazine, 1,5-naphthyridine, 1,8-naphthyridine, acridine, fenazine and xanthene.

The term "heterocyclic" in the present description is intended to include unsaturated as well as partially and fully saturated mono-, bi- and tricyclic rings having
 20 from 4 to 14, preferably 4 to 10 ring atoms having one or more heteroatoms (e.g., oxygen, sulfur, or nitrogen) as part of the ring system and the remainder being carbon, such as, for example, the heteroaryl groups mentioned above as well as the corresponding partially saturated or fully saturated heterocyclic rings. Exemplary saturated heterocyclic rings are azetidine, pyrrolidine, piperidine, piperazine, morpholine, thiomorpholine and 1,4-
 25 oxazepane.

C₁₋₆-alkyl in the compound of formula (I) according to the present application, which may be straight, branched or cyclic, is preferably C₁₋₄-alkyl. Exemplary alkyl groups include methyl, ethyl, n-propyl, isopropyl, n-butyl, sec-butyl, tert-butyl, pentyl, isopentyl, hexyl, isohexyl, and cyclohexyl. For parts of the range "C₁₋₆-alkyl" all
 30 subgroups thereof are contemplated such as C₁₋₅-alkyl, C₁₋₄-alkyl, C₁₋₃-alkyl, C₁₋₂-alkyl, C₂₋₆-alkyl, C₂₋₅-alkyl, C₂₋₄-alkyl, C₂₋₃-alkyl, C₃₋₆-alkyl, C₄₋₅-alkyl, etc.

C₁₋₆-alkoxy, in the compound of formula (I) according to the present application may be straight or branched, is preferably C₁₋₄-alkoxy. Exemplary alkoxy groups include methoxy, ethoxy, propoxy, isopropoxy, butoxy, sec-butoxy, tert-butoxy, pentyloxy,

isopentyloxy, hexyloxy, and isohexyloxy. For parts of the range "C₁₋₆-alkoxy" all subgroups thereof are contemplated such as C₁₋₅-alkoxy, C₁₋₄-alkoxy, C₁₋₃-alkoxy, C₁₋₂-alkoxy, C₂₋₆-alkoxy, C₂₋₅-alkoxy, C₂₋₄-alkoxy, C₂₋₃-alkoxy, C₃₋₆-alkoxy, C₄₋₅-alkoxy, etc.

C₁₋₆-acyl, in the compound of formula (I) according to the present application may be saturated or unsaturated and is preferably C₁₋₄-acyl. Exemplary acyl groups include formyl, acetyl, propionyl, butyryl, isobutyryl, valeryl, isovaleryl, butenoyl (e.g. 3-butenoyl), hexenoyl (e.g. 5-hexenoyl). For parts of the range "C₁₋₆-acyl" all subgroups thereof are contemplated such as C₁₋₅-acyl, C₁₋₄-acyl, C₁₋₃-acyl, C₁₋₂-acyl, C₂₋₆-acyl, C₂₋₅-acyl, C₂₋₄-acyl, C₂₋₃-acyl, C₃₋₆-acyl, C₄₋₅-acyl, etc.

C₂₋₆-alkenyl in the compound of formula (I) according to the present application, which may be straight, branched or cyclic, is preferably C₂₋₄-alkenyl. Exemplary alkenyl groups include vinyl, 1-propenyl, 2-propenyl, isopropenyl, 1-butenyl, 2-butenyl, 1-pentenyl, 2-pentenyl, 1-hexenyl, 2-hexenyl, and 1-cyclohexenyl. For parts of the range "C₂₋₆-alkenyl" all subgroups thereof are contemplated such as C₂₋₅-alkenyl, C₂₋₄-alkenyl, C₂₋₃-alkenyl, C₃₋₆-alkenyl, C₄₋₅-alkenyl, etc.

The term "halogen" in the present description is intended to include fluorine, chlorine, bromine and iodine.

The term "sulfanyl" in the present description means a thio group.

With the expression mono- or di-substituted is meant in the present description that the functionalities in question may be substituted with independently H, C₁₋₆-acyl, C₂₋₆-alkenyl, C₁₋₆-(cyclo)alkyl, aryl, pyridylmethyl, or heterocyclic rings e.g. azetidine, pyrrolidine, piperidine, piperazine, morpholine and thiomorpholine, which heterocyclic rings optionally may be substituted with C₁₋₆-alkyl.

Combinations of substituents and variables envisioned by this invention are only those that result in the formation of stable compounds. The term "stable", as used herein, refers to compounds which possess stability sufficient to allow manufacture and which maintains the integrity of the compound for a sufficient period of time to be useful for the purposes detailed herein (e.g., therapeutic administration to a subject for the treatment of disease, 11 β HSD1 inhibition, 11 β HSD1-mediated disease).

The term "prodrug forms" in the present description means a pharmacologically acceptable derivative, such as an ester or an amide, which derivative is biotransformed in the body to form the active drug (see Goodman and Gilman's, The Pharmacological basis

of Therapeutics, 8th ed., McGraw-Hill, Int. Ed. 1992, "Biotransformation of Drugs, p. 13-15).

"Pharmaceutically acceptable" means in the present description being useful in preparing a pharmaceutical composition that is generally safe, non-toxic and neither
5 biologically nor otherwise undesirable and includes being useful for veterinary use as well as human pharmaceutical use.

"Pharmaceutically acceptable salts" mean in the present description salts which are pharmaceutically acceptable, as defined above, and which possess the desired pharmacological activity. Such salts include acid addition salts formed with organic and
10 inorganic acids, such as hydrogen chloride, hydrogen bromide, hydrogen iodide, sulfuric acid, phosphoric acid, acetic acid, glycolic acid, maleic acid, malonic acid, oxalic acid, methanesulfonic acid, trifluoroacetic acid, fumaric acid, succinic acid, tartaric acid, citric acid, benzoic acid, ascorbic acid and the like. Base addition salts may be formed with organic and inorganic bases, such as sodium, ammonia, potassium, calcium,
15 ethanolamine, diethanolamine, N-methylglucamine, choline and the like. Included in the invention are pharmaceutically acceptable salts or compounds of any of the formulae herein.

Pharmaceutical compositions according to the present invention contain a pharmaceutically acceptable carrier together with at least one of the compounds
20 comprising the formula (I) as described herein above, dissolved or dispersed therein as an active, antimicrobial, ingredient. In a preferred embodiment, the therapeutic composition is not immunogenic when administered to a human patient for therapeutic purposes, unless that purpose is to induce an immune response.

The preparation of a pharmacological composition that contains active ingredients
25 dissolved or dispersed therein is well understood in the art. Typically such compositions are prepared as sterile injectables either as liquid solutions or suspensions, aqueous or non-aqueous, however, solid forms suitable for solution, or suspensions, in liquid prior to use can also be prepared. The preparation can also be emulsified.

The active ingredient may be mixed with excipients, which are pharmaceutically
30 acceptable and compatible with the active ingredient and in amounts suitable for use in the therapeutic methods described herein. Suitable excipients are, for example, water, saline, dextrose, glycerol, ethanol or the like and combinations thereof. In addition, if desired, the composition may contain minor amounts of auxiliary substances such as

wetting or emulsifying agents, pH buffering agents and the like which enhance the effectiveness of the active ingredient. Adjuvants may also be present in the composition.

Pharmaceutically acceptable carriers are well known in the art. Exemplary of liquid carriers are sterile aqueous solutions that contain no materials in addition to the active ingredients and water, or contain a buffer such as sodium phosphate at physiological pH value, physiological saline or both, such as phosphate-buffered saline. Still further, aqueous carriers can contain more than one buffer salt, as well as salts such as sodium and potassium chlorides, dextrose, propylene glycol, polyethylene glycol and other solutes.

Liquid compositions can also contain liquid phases in addition to and to the exclusion of water. Exemplary of such additional liquid phases are glycerine, vegetable oils such as cottonseed oil, organic esters such as ethyl oleate, and water-oil emulsions.

The pharmaceutical composition according to one of the preferred embodiments of the present invention comprising compounds comprising the formula (I), may include pharmaceutically acceptable salts of that component therein as set out above.

Pharmaceutically acceptable salts include the acid addition salts (formed with the free amino groups of the polypeptide) that are formed with inorganic acids such as, for example, hydrochloric or phosphoric acids, or such organic acids as acetic acid, tartaric acid, mandelic acid and the like. Salts formed with the free carboxyl groups can also be derived from inorganic bases such as, for example, sodium, potassium, ammonium, calcium or ferric hydroxides, and such organic bases as isopropylamine, trimethylamine, 2-ethylamino ethanol, histidine, procaine and the like.

The preparations according to the preferred embodiments may be administered orally, topically, intraperitoneally, intraarticularly, intracranially, intradermally, intramuscularly, intraocularly, intrathecally, intravenously, subcutaneously. Other routes are known to those of ordinary skill in the art.

The orally administrable compositions according to the present invention may be in the form of tablets, capsules, powders, granules, lozenges, liquid or gel preparations, such as oral, topical or sterile parenteral solutions or suspensions. Tablets and capsules for oral administration may be in unit dose presentation form and may contain conventional excipients such as binding agents, for example syrup, acacia, gelatin, sorbitol, traganath or polyvinyl-pyrrolidone; fillers e.g. lactose, sugar, maize-starch, calcium phosphate, sorbitol or glycine; tableting lubricant e.g. magnesium stearate, talc, polyethylene glycol or silica; disintegrants e.g. potato starch, or acceptable wetting agents

such as sodium lauryl sulfate. The tablets may be coated according to methods well known in normal pharmaceutical practice. Oral liquid preparations may be in the form of e.g. aqueous or oily suspensions, solutions, emulsions, syrups or elixirs or may be presented as a dry product for reconstitution with water or other suitable vehicle before use. Such liquid preparations may contain conventional additives such as suspending agents, e.g. sorbitol, syrup, methyl cellulose, glucose syrup, gelatin hydrogenated edible fats; emulsifying agents e.g. lecithin, sorbitan monooleate or acacia, non-aqueous vehicles (which may include edible oils), e.g. almond oil, fractionated coconut oil, oily esters such as glycerine, propylene glycol, or ethyl alcohol; preservatives e.g. methyl or propyl p-hydroxybenzoate or sorbic acid, and if desired conventional flavouring or colouring agents.

“An effective amount” refers to an amount of a compound which confers a therapeutic effect on the treated subject. The therapeutic effect may be objective (i.e., measurable by some test or marker) or subjective (i.e., subject gives an indication of or feels an effect). A pharmaceutical composition according to the present invention, may comprise typically an amount of at least 0.1 weight percent of compound comprising the formula (I) per weight of total therapeutic composition. A weight percent is a ratio by weight of total composition. Thus, for example, 0.1 weight percent is 0.1 grams of compound comprising the formula (I) per 100 grams of total composition. A suitable daily oral dose for a mammal, preferably a human being, may vary widely depending on the condition of the patient. However a dose of compound comprising the formula (I) of about 0.1 to 300 mg/kg body weight may be appropriate.

The compositions according to the present invention may also be used veterinarily and thus they may comprise a veterinarily acceptable excipient or carrier. The compounds and compositions may be thus administered to animals, e.g., cats, dogs, or horses, in treatment methods.

The compounds of the present invention in labelled form, e.g. isotopically labelled, may be used as a diagnostic agent.

This invention relates to methods of making compounds of any of the formulae herein comprising reacting any one or more of the compounds of the formulae delineated herein, including any processes delineated herein. The compounds of formula (I) above may be prepared by, or in analogy with, conventional methods, and especially according to or in analogy with the following methods. Further, the pharmacology in-vitro was studied using the following reagents and methods.

73529-289

The chemicals used in the synthetic routes delineated herein may include, for example, solvents, reagents, catalysts, and protecting group and deprotecting group reagents. The methods described above may also additionally include steps, either before or after the steps described specifically herein, to add or remove suitable protecting groups in order to ultimately allow synthesis of the compounds. In addition, various synthetic steps may be performed in an alternate sequence or order to give the desired compounds. Synthetic chemistry transformations and protecting group methodologies (protection and deprotection) useful in synthesizing applicable compounds are known in the art and include, for example, those described in R. Larock, *Comprehensive Organic Transformations*, VCH Publishers (1989); T.W. Greene and P.G.M. Wuts, *Protective Groups in Organic Synthesis*, 3rd Ed., John Wiley and Sons (1999); L. Fieser and M. Fieser, *Fieser and Fieser's Reagents for Organic Synthesis*, John Wiley and Sons (1994); and L. Paquette, ed., *Encyclopedia of Reagents for Organic Synthesis*, John Wiley and Sons (1995) and subsequent editions thereof.

15

By the expression "comprising" means "including but not limited to." Thus, other non-mentioned substances, additives or carriers may be present.

The invention will now be described in reference to the following Examples. These Examples are not to be regarded as limiting the scope of the present invention, but shall only serve in an illustrative manner.

20

EXAMPLES

EXPERIMENTAL METHODS

25

Scintillation Proximity Assay

[1, 2(n) - ³H]-cortisone was purchased from Amersham Pharmacia Biotech. Anti-cortisol monoclonal mouse antibody, clone 6D6.7 was obtained from Immunotech and Scintillation proximity assay (SPA) beads coated with monoclonal antimouse antibodies were from Amersham Pharmacia Biotech. NADPH, tetrasodium salt was from Calbiochem and glucose-6-phosphate (G-6-P) was supplied by Sigma. The human 11- β -hydroxysteroid dehydrogenase type-1 enzyme (11- β -HSD₁) was expressed in *Pichia pastoris*. 18- β -glycyrrhetinic acid (GA) was obtained from Sigma. The serial dilutions of the compounds were performed on a Tecan Genesis[™] RSP 150. Compounds to be tested

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73529-289

were dissolved in DMSO (1 mM) and diluted in 50 mM Tris-HCl, pH 7.2 containing 1 mM EDTA.

The multiplication of plates was done on a WallacQuadra™. The amount of the product [³H]-cortisol, bound to the beads was determined in a Packard, Top Count
5 microplate liquid scintillation counter.

The 11-β-HSD₁ enzyme assay was carried out in 96 well microtiter plates (Packard™, Optiplate™) in a total well volume of 220 μL and contained 30 mM Tris-HCl, pH 7.2 with 1 mM EDTA, a substrate mixture tritiated Cortisone/NADPH (175 nM / 181 μM), G-6-P (1 mM) and inhibitors in serial dilutions (9 to 0.15 μM). Reactions were
10 initiated by the addition of human 11-β-HSD₁, either as *Pichia pastoris* cell homogenate or microsomes prepared from *Pichia pastoris* (the final amount of enzyme used was varied between 0.057 to 0.11 mg/mL). Following mixing, the plates were shaken for 30 to 45 minutes at room temperature. The reactions were terminated with 10 μL 1 mM GA stop solution. Monoclonal mouse antibody was then added (10 μL of 4 μM) followed by
15 100 μL of SPA beads (suspended according to the manufacturers instructions). Appropriate controls were set up by omitting the 11-β-HSD₁ to obtain the non-specific binding (NSB) value.

The plates were covered with plastic film and incubated on a shaker for 30 minutes, at room temperature, before counting. The amount of [³H]-cortisol, bound to the
20 beads was determined in a microplate liquid scintillation counter.

The calculation of the K_i values for the inhibitors was performed by use of Activity Base. The K_i value is calculated from IC₅₀ and the K_m value is calculated using the Cheng Prushoff equation (with reversible inhibition that follows the Michaelis-Menten equation): $K_i = IC_{50}(1+[S]/K_m)$ [Cheng, Y.C.; Prushoff, W.H. Biochem.
25 Pharmacol. 1973, 22, 3099-3108]. The IC₅₀ is measured experimentally in an assay wherein the decrease of the turnover of cortisone to cortisol is dependent on the inhibition potential of each substance. The K_i values of the compounds of the present invention for the 11-β-HSD₁ enzyme lie typically between about 10 nM and about 10 μM.

73529-289

COMPOUND PREPARATION

General:

For preparative straight phase HPLC purification a Phenomenex™ column (250 × 21.1 mm, 10 μm) was used on a Gilson™ system eluting with ethanol in chloroform (gradient from 0 – 10% in 10 min) with a flow of 20 mL/min. Column chromatography was performed on silica using Silica gel 60 (230-400 mesh), Merck™. Melting points were determined on a Gallenkamp™ apparatus. Elemental analyses were recorded using a Vario™ EL instrument. HPLC analyses were performed using a Hypersil Elite™ column (150 x 4.6 mm, 3μ) with a flow of 3 mL / min on a Waters™ 600E system with monitoring at 254 nm. Reverse phase preparative HPLC was carried out on a 100 x 21.2 mm, 5μ Hypersil Elite™ column eluting with a gradient of 5% ACN in 95% water to 95% ACN in 5% water (0.2% TFA buffer) over 10 mins at a flow rate of 20 mL / min with the UV detector set at 254 nm. Thin layer chromatography was carried out using pre-coated silica gel F-254 plates (thickness 0.25 mm). Electrospray MS spectra were obtained on a Micromass platform LCMS spectrometer. Crude, worked up compounds were purified by flash column chromatography using pre packed silica SPE columns (10 g silica) on an Isco Foxy 200 Combiflash™ system, and a gradient of 16.67% ethyl acetate in hexane increasing incrementally to 100% ethyl acetate.

20 *List of Abbreviations*

ACN = acetonitrile

DCM = dichloromethane

DIEA = N,N-diisopropylethylamine

DMAP = 4-dimethylaminopyridine

25 DME = ethyleneglycol dimethyl ether

DMF = dimethylformamide

DMSO = dimethyl sulfoxide

EDCI = 1-(3-dimethylaminopropyl)-3-ethylcarbodiimide hydrochloride

EDTA = ethylenediaminetetraacetic acid

30 HCOOH = formic acid

HOAT = 1-hydroxy-7-azabenzotriazole

HOBT = 1-hydroxybenzotriazole hydrate

HPLC = high performance liquid chromatography

MTBE = tert-butyl methyl ether

RP LC-MS = reversed-phase liquid chromatography-mass spectrometry

TEA = triethylamine

TFA = trifluoroacetic acid

5 THF = tetrahydrofuran

SULFONAMIDE COUPLINGS:

METHOD A:

10 1 Eq of the 2-aminothiazole was dissolved in pyridine (0.5 M solution). The sulfonyl chloride (1.2 eq) was added and the reaction mixture was stirred at ambient temperature under nitrogen atmosphere for 15 h. The reaction mixture was poured into aqueous HCl (1 M). If the product precipitated it was collected on a filter and washed with aqueous HCl (1 M) and recrystallised from ethanol. In case an oil was obtained, the crude was extracted with DCM and worked up and purified using standard procedures.

15

METHOD B:

A solution of the 2-aminothiazole derivative (1 eq), triethylamine (2 eq) and DMAP (1 eq) in DMF (1 M) and DCM (0.225 M) was dispensed into a reaction vial. The sulfonyl chloride (1.2 eq) was dissolved in DCM (0.33 M) and added. The reaction mixtures were kept at room temperature over night. The mixture was then added to petroleum ether (10 times reaction volume). After some hours in refrigerator the supernatants were decanted and (a portion of) the residual materials were dissolved in DMSO-methanol-acetic acid (300 μ L + 500 μ L + 50 μ L) and purified by preparative LCMS (acetonitrile-water gradients). The purest fractions were collected and lyophilized. Alternatively, the crude was isolated using extractive work-up and purified using standard procedures.

25

SAPONIFICATIONS:

METHOD C:

30 1 Eq of the ester was suspended in 95% ethanol (0.1 M) and treated with KOH (aqueous, 6 eq). Water was added until a clear solution was achieved. The reaction mixture was stirred for 2-3 h at ambient temperature. The solvent was removed under

reduced pressure and the crude was redissolved in water. Addition of conc. HCl until pH 2 gave a precipitate which was collected on a filter and washed with cold water and dried.

AMIDE COUPLINGS:

5 METHOD D:

The carboxylic acid ester was dissolved (0.05 M) in a large excess of the amine in 40 or 70% water-solution. The reaction mixture was stirred at ambient temperature over night. The solvent was removed under reduced pressure and the crude product was purified by flash column chromatography on silica gel eluting with methanol (0→6%) in
10 DCM.

METHOD E:

The carboxylic acid was suspended in DCM (0.05M) followed by the addition of EDCI (1.1 eq), triethylamine (3 eq), DMAP (0.5 eq) and the amine of choice (1.2 eq).
15 DMF was added when the starting materials did not dissolve properly. The reaction mixture was stirred at ambient temperature over night. The organic phase was washed with aqueous HCl (1 M), dried over sodium sulfate, filtered and evaporated *in vacuo*. The crude product amide was purified by flash column chromatography on silica gel, eluting with methanol (1→3→6%) in DCM or ethyl acetate.

20

METHOD F:

The carboxylic acid was suspended in DCM (0.1 M) and cooled to 0°C under nitrogen (g) atmosphere. EDCI (1 eq), HOAT (1 eq) or HOBt (1 eq) was added, followed by TEA (2.2 eq). After 10 min, the amine of choice (1.2 eq) was added and the reaction
25 mixture was allowed to warm to ambient temperature. After 5 h, the DCM phase was washed with aqueous HCl (1 M) and worked up and purified as described in METHOD E.

METHOD G:

30 Under N₂-atmosphere, aluminium chloride (1 eq) was suspended in DCM (0.1 M) and treated with the amine of choice (4 eq) at ambient temperature. After 10 min, the alkyl ester (1 eq) was added and the reaction mixture was stirred until starting material had been consumed (TLC). Quenching with saturated aqueous sodium hydrogen

carbonate or aqueous HCl (1 M) and extractive workup with ethyl acetate gave the crude products which were then purified by flash chromatography on silica gel eluting with DCM / methanol mixtures.

5 *FORMATION OF THIAZOLE RING:*

METHOD H:

To a solution or suspension of an optionally substituted thiourea in ethanol (0.5 M), 1 equivalent of α -haloketone was added at room temperature. The reaction mixture was stirred in a sealed tube at 95°C for 4 h, cooled, concentrated, redissolved in ethyl acetate, washed with saturated aqueous sodium hydrogen carbonate, dried over sodium sulfate and chromatographed on silica gel using petroleum-ether and ethyl acetate as eluents.

METHOD I:

15 To a 0.5 M solution of ketone (1 eq) and thiourea (2 eq) in ethanol at 60°C, 1 eq of iodine was added in one portion. The reaction tube was sealed and the reaction mixture was stirred at 100°C for 16 hours. After evaporation of the solvent the residue was taken up in DCM, washed with saturated aqueous sodium hydrogen carbonate, dried with magnesium sulfate. Products were purified by chromatography on silica gel using a gradient of petroleum-ether / ethyl acetate from 8:1 to 2:1 for elution.

ACYLATIONS:

METHOD J:

25 To a solution of the alcohol in dry pyridine (0.3 M), 1.1 eq of acid chloride was added at 0 °C. The reaction mixture was stirred at room temperature for 6 h, concentrated, co-evaporated with acetonitrile, re-dissolved in DCM, washed with aqueous HCl (0.5 M), dried with sodium sulfate and chromatographed on silica gel using petroleum-ether and ethyl acetate as eluents.

30 *CARBAMATES:*

METHOD K:

To a solution of the alcohol in dry pyridine (0.3 M), 1.5 eq of 4-nitrophenyl chloroformate (0.5 M in dry pyridine) was added at 0°C. After the reaction mixture was

stirred at room temperature for 12 h, 5 eq of primary or secondary amine were added at 0°C. The solution was stirred at room temperature for 3 h, concentrated, co-evaporated with acetonitrile, re-dissolved in DCM, washed with aqueous HCl (0.5 M) and saturated aqueous sodium bicarbonate, dried with sodium sulfate and chromatographed on silica gel
5 using DCM and methanol as eluents.

SULFONYL CHLORIDES

Arylsulfonyl chlorides that were not commercially available were prepared from the aniline derivatives according to literature procedures (see for instance: Hoffman, R.
10 V. (1981) Org. Synth. 60: 121).

2-amino-5-thiazoleacetic acid, ethyl ester is available from Ambinter, 46 quai Louis Bleriot, Paris, F-75016, France. The preparation thereof has been described in:

Aryl diazo compounds and diazonium salts as potential irreversible probes of
15 **the GABA receptor.** Bouchet, Marie Jeanne; Rendon, Alvaro; Wermuth, Camille G.; Goeldner, Maurice; Hirth, Christian. Fac. Pharm., Univ. Louis Pasteur, Strasbourg, Fr. J. Med. Chem. (1987), 30(12), 2222-7. CODEN: JMCMAR ISSN: 0022-2623. Journal written in English. CAN 107:198180 AN 1987:598180 CAPLUS; and
Growth regulating activity of some thiazole-, thiazoline-, and
20 **thiazolidineacetic acids.** Garraway, J. L. Dep. Phys. Sci., Wye Coll., Ashford/Kent, Engl. Pestic. Sci. (1974), 5(2), 185-8. CODEN: PSSCBG Journal written in English. CAN 81:73315 AN 1974:473315 CAPLUS

PREPARATION OF COMPOUNDS IN EXAMPLES 1-5

25

EXAMPLE 1 - 3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide

Step a – preparation of 2-(2-amino-1,3-thiazol-5-yl)ethanol

30

2,3-dichlorotetrahydrofuran (5 g; 0,035 mol) and thiourea (2,7 g; 0,035 mol) were refluxed for 12 h in water (20 ml). Then 40 ml of 40% NaOH (aq) were added, the reaction mixture was cooled to room temperature and stirred for one hour. The formed precipitate was filtered off, dried at reduced pressure and recrystallized from EtOH/Et₂O.

HCl, 2M in Et₂O, was added to form the HCl-salt which was isolated by filtration and dried. Yielded 3,8 g, 61%.

¹H NMR (400 MHz, DMSO-d₆) δ ppm 2.71 (t, *J*=4.88 Hz, 2 H) 3.53 (t, *J*=5.62 Hz, 2 H) 4.17 (s, 1 H) 7.06 (s, 1 H) 9.37 (s, 2 H). MS *m/z*: M+H 145

5

Step b – preparation of 3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide

2-(2-amino-1,3-thiazol-5-yl)ethanol (0,16 g; 0,89 mmol), 3-chloro-2-methylbenzenesulfonyl chloride (0,62 g; 2,8 mmol) and NaOH (0,093 g; 2,3 mmol) were dissolved in 9 ml THF:H₂O (1:2) and stirred over night. The reaction mixture was extracted twice with dichloromethane and the organic layers was combined, dried over MgSO₄ and concentrated. The crude material was then stirred in morpholine (10 ml) over night. The reaction mixture was concentrated and purified on preparative RP LC-MS, then further purified on a preparative TLC-column (Trikonex, FlashTube™ 2008) eluted with CHCl₃/MeOH 40/3 + triethylamine 1%. The substance was visualized by UV-light, the relevant band cut out and the silica-gel extracted with the eluent. Filtration and concentration yielded a product which was still found to contain a number of impurities. This was further purified on preparative RP LC-MS. Yield 0,8 mg.

¹H NMR (400 MHz, methanol-d₄) δ ppm 2.65 (m, 3 H) 3.10 (m, 4 H) 3.28 (m, 2 H) 3.45 (m, 2 H) 3.70 (m, 2 H) 4.02 (m, 2 H) 7.00 (m, 1 H) 7.24 (t, *J*=7.81 Hz, 1 H) 7.54 (d, *J*=8.06 Hz, 1 H) 7.91 (d, *J*=7.57 Hz, 1 H). MS *m/z*: M+H 402. HRMS (EI) calcd for C₁₆H₂₀ClN₃O₃S₂: 401.0635, found 401.0627.

EXAMPLE 2 - methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate

Step a – preparation of methyl 3-bromo-4-oxobutanoate

Firstly, methyl 4-oxobutanoate was synthesized from the commercially available methyl 4,4-dimethoxybutyrate according to a literature procedure; Will, S. G.; Magriotis, P.; Marinelli, E. R.; Dolan, J.; Johnson, F. *J. Org. Chem.*, **1985**, *50*, 5433-5434.

Secondly, methyl 3-bromo-4-oxobutanoate was obtained from methyl 4-oxobutanoate following a literature procedure; Aeberli, M.; Erlenmeyer, H. *Hel. Chim. Acta.*, **1950**, *70*, 503-505.

Step b – preparation of methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate

N-(aminocarbonothioyl)-3-chloro-2-methylbenzenesulfonamide (0.4 g, 1.5 mmol) and methyl 3-bromo-4-oxobutanoate (0.3 g, 1.5 mmol), dissolved in pyridine (5 mL), were irradiated in a microwave oven for 2.5 min at 130 °C. The solvent was removed under reduced pressure and the product separated from the starting materials using preparative HPLC (yield 0.2g, 30%).

¹H NMR (400 MHz, CD₃OD) δ ppm 2.70 (s, 3 H) 3.69 (d, *J*=1.22 Hz, 2 H) 3.70 (s, 3 H) 6.98 (t, *J*=1.10 Hz, 1 H) 7.29 (t, *J*=8.30 Hz, 1 H) 7.57 (dd, *J*=8.06, 1.46 Hz, 1 H) 7.96 (m, 1 H). MS *m/z*: *M*+*H* 361.

EXAMPLE 3 - (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetic acid

15

To methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate (Example 2) (0.2 g, 0.55 mmol) dissolved in EtOH (5.5 mL) was added aqueous KOH (0.6 mL, 5.5 M). The reaction mixture was stirred at room temperature for 1 h. The solvent was then removed under reduced pressure and the crude product dissolved in water. The aqueous phase was acidified using conc. HCl so that the product precipitated. Filtration and washing with water (5 mL) afforded 0.2 g, 97% product. The product was used without any further purification.

25

EXAMPLE 4 - 3-chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide

To a solution of (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetic acid (Example 3) (0.09 g, 0.25 mmol) in CH₂Cl₂ (5.0 mL) and DMF (0.5 mL) were added EDCI (0.05 g, 0.27 mmol), DMAP (0.02 g, 0.12 mmol), triethylamine (0.1 mL, 0.75 mmol) and morpholine (0.03 mL, 0.30 mmol). The reaction mixture was stirred at room temperature overnight. The reaction mixture was then washed with 1 M HCl (2x15 mL) and the organic layer was collected. The organic phase was dried (MgSO₄)

and concentrated under reduced pressure. Purification using preparative HPLC afforded the desired product (0.01g) in 10% yield.

¹H NMR (400 MHz, acetone-d₆) δ ppm 2.67 (s, 3 H) 3.47-3.63 (m, 8 H) 3.82 (d, *J*=1.22 Hz, 2 H) 7.05 (t, *J*=1.22 Hz, 1 H) 7.33 (t, *J*=8.30 Hz, 1 H) 7.57 (m, 1 H) 7.98 (dd, *J*=8.06, 1.22 Hz, 1 H). MS *m/z*: M+H 416.

EXAMPLE 5 - 2-(2-[(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)-N,N-diisopropylacetamide

To a solution of (2-[(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetic acid (Example 3) (0.09 g, 0.25 mmol) in CH₂Cl₂ (5.0 mL) and DMF (0.5 mL) were added EDCI (0.05 g, 0.27 mmol), DMAP (0.02 g, 0.12 mmol), triethylamine (0.1 mL, 0.75 mmol) and diisopropylamine (0.04 mL, 0.30 mmol). The reaction mixture was stirred at room temperature overnight. The reaction mixture was then washed with 1 M HCl (2x15 mL) and the organic layer was collected. The organic phase was dried (MgSO₄) and concentrated under reduced pressure. Purification using preparative HPLC afforded the desired product (0.01g) in 9% yield.

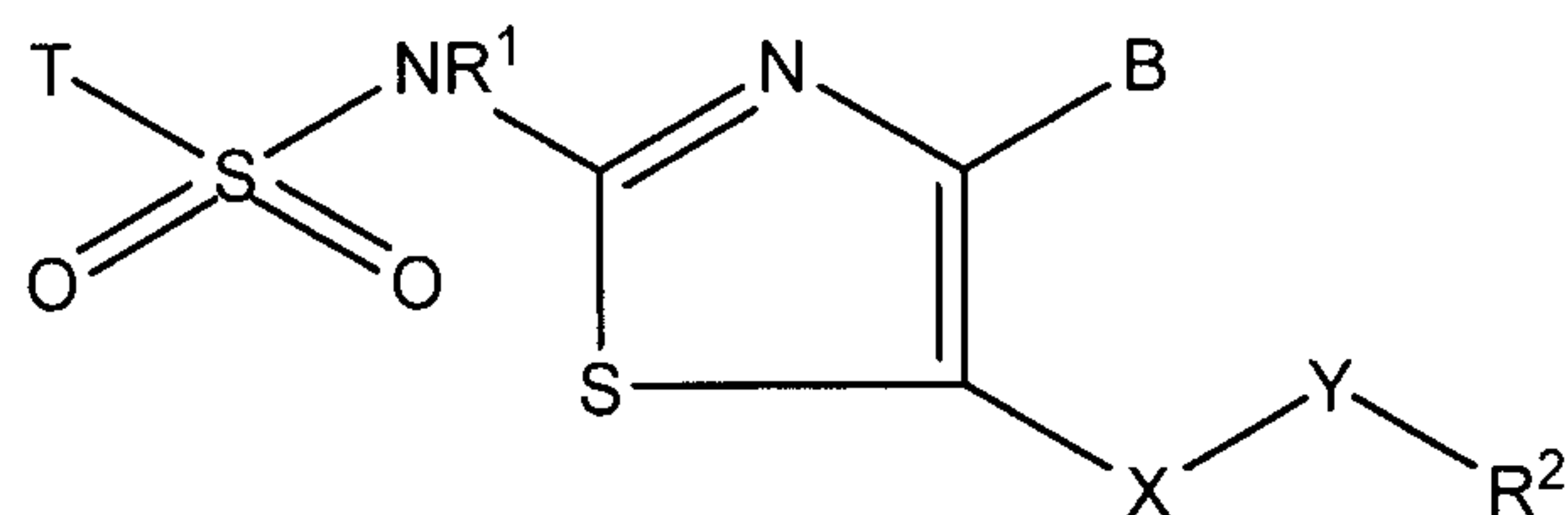
¹H NMR (400 MHz, CDCl₃) δ ppm 1.21 (d, *J*=6.10 Hz, 6 H) 1.34 (d, *J*=6.59 Hz, 6 H) 2.64 (s, 3 H) 3.61 (m, *J*=19.53 Hz, 1 H) 3.63 (s, 2 H) 3.89 (m, 1 H) 6.94 (s, 1 H) 7.23 (m, 1 H) 7.52 (d, *J*=7.81 Hz, 1 H) 8.04 (d, *J*=7.81 Hz, 1 H). MS *m/z*: M+H 430.

Various embodiments of the present invention have been described above but a person skilled in the art realizes further minor alterations which would fall into the scope of the present invention. The breadth and scope of the present invention should not be limited by any of the above-described exemplary embodiments, but should be defined only in accordance with the following claims and their equivalents.

73529-289

CLAIMS:

1. A compound of formula (I)



wherein

- 5 T is selected from

5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

- thienyl substituted with one or more of
 10 (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl and pyridyl;
 and

- phenyl substituted with one or more of
 15 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano,
 20 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl,
 25 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino,

73529-289

trifluoromethoxy, 4-trifluoromethoxyphenyl and
trifluoromethyl;

R^1 is hydrogen or C_{1-6} -alkyl;

X is CH_2 and Y is a single bond or CO; or

5 X is CO and Y is CH_2 ;

B is hydrogen, C_{1-6} -alkyl or dimethylaminomethyl;

and

R^2 is selected from

C_{1-6} -alkyl, azido, arylthio, heteroarylthio,
10 halogen, hydroxymethyl, 2-hydroxyethylaminomethyl,
methylsulfonyloxymethyl, 3-oxo-4-morpholinolinylmethylene,
 C_{1-6} -alkoxycarbonyl, and 5-methyl-1,3,4-oxadiazol-2-yl;

NR^3R^4 , wherein R^3 and R^4 are each independently
selected from hydrogen, ethyl, isopropyl, n-propyl,
15 cyclohexyl, optionally halogenated C_{1-6} -alkylsulfonyl,
 C_{1-6} -alkoxy, 2-methoxyethyl, 2-hydroxyethyl,
1-methylimidazolylsulfonyl, C_{1-6} -acyl, cyclohexylmethyl,
cyclopropanecarbonyl, aryl, optionally halogenated
arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl,
20 N-carbethoxypiperidyl, 3-chloro-2-methylphenylsulfonyl and
 C_{1-6} -alkyl substituted with one or more aryl, heterocyclic or
heteroaryl, or

NR^3R^4 represent together a heterocyclic system
which is selected from imidazole, piperidine, pyrrolidine,
25 piperazine, morpholine, oxazepine, oxazole, thiomorpholine,
1,1-dioxidothiomorpholine, 2-(3,4-dihydro-
2(1H)isoquinolinyl), and (1S,4S)-2-oxa-5-
azabicyclo[2.2.1]hept-5-yl, optionally substituted by
 C_{1-6} -alkyl, C_{1-6} -acyl, hydroxy, oxo, or t-butoxycarbonyl;

73529-289

OCOR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen and C₁₋₆-alkyl or form together with the N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is hydrogen, benzyl, optionally
5 halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl, C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, or 2-carbomethoxyphenyl;

or a pharmaceutically acceptable salt, hydrate or solvate thereof;

10 with the proviso that when:

X is CH₂, Y is CO, then R² is not hydroxy; and

X is CH₂, Y is a single bond, R² is methyl, B is methyl, then T is not 3-chloro-2-methylphenyl;

and with the further provisos that

15 the combination X-Y-R² does not represent C₁₋₆-alkyl or dimethylaminomethyl; and

when R¹ is H, the combination X-Y-R² does not represent halogenated C₁₋₆-alkyl, C₁₋₆-acyl or C₁₋₆-alkoxycarbonyl;

20 wherein

aryl, as used in each instance above, is a monocyclic or bicyclic aromatic ring having from 6 to 10 ring carbon atoms;

heteroaryl, is a mono-, bi-, or tricyclic aromatic
25 ring system having from 5 to 14 ring atoms selected from carbon, nitrogen, sulfur, oxygen, and selenium, wherein at

73529-289

least one or more of the ring atoms are other than carbon;
and

heterocyclic, as used in each instance above, is a saturated, partially saturated, or unsaturated mono-, bi-,
5 or tricyclic ring having from 4 to 14 ring atoms selected from carbon, oxygen, and nitrogen, wherein wherein at least one or more of the ring atoms are other than carbon.

2. The compound according to claim 1, wherein

R^1 is hydrogen or methyl;

10 B is hydrogen, methyl or dimethylaminomethyl;

R^2 is selected from

n-propyl, azido, bromo, chloro,
2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene,
ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl,
15 hydroxymethyl, 2-hydroxyethylaminomethyl, and
methylsulfonyloxymethyl;

NR^3R^4 , wherein R^3 and R^4 are each independently selected from acetyl, benzhydryl, 1,3-benzodioxol-5-ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl,
20 cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl, 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl, 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl, phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-furanylmethyl,
25 trifluoromethylsulfonyl and N-carbethoxypiperidyl; or

NR^3R^4 represent together 4-acetylpiperazinyl, 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-2(1H)isoquinolinyl), (2R,6S)-2,6-dimethylmorpholinyl, (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl,

73529-289

imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl, 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl, 5 piperazinyl, piperidinyl, pyrrolidinyl, pyrrolidonyl, thiomorpholinyl, or 1,1-dioxido-thiomorpholinyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, hydrogen or form together with the N-atom to which they are attached morpholinyl; and

10 R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, or 2,2,2-trifluoroethyl.

3. Ethyl (2-{{(2,4-dichloro-5-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.
15

4. Ethyl (2-{{(4-chlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.

5. Ethyl (2-{{(2,4-difluorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.

20 6. Ethyl (2-{{(2,5-dichlorothien-3-yl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.

7. Ethyl (2-{{(2-chlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.

8. Ethyl {2-[(1-naphthylsulfonyl)amino]-1,3-thiazol-5-yl}acetate.
25

9. Ethyl (2-{{(3-chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.

73529-289

10. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methylacetamide.
11. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethylacetamide.
- 5 12. Ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}acetate.
13. Ethyl (2-{[(4-nitrophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
14. Ethyl (2-{[(4-methoxyphenyl)sulfonyl]amino}-1,3-
10 thiazol-5-yl)acetate.
15. Ethyl (2-{[(2,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
16. 3-Chloro-N-[5-(2-hydroxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide.
- 15 17. 3-Chloro-N-[5-(2-ethoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide.
18. Ethyl (2-{[(3-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
19. Ethyl (2-{[(4-fluorophenyl)sulfonyl]amino}-1,3-
20 thiazol-5-yl)acetate.
20. Ethyl (2-{[(4-isopropylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
21. Ethyl [2-({[4-({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl)phenyl]sulfonyl}amino)-1,3-
25 thiazol-5-yl]acetate.
22. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide.

73529-289

23. Ethyl [2-([2-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate.
24. Ethyl [2-([3-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate.
25. Ethyl [2-([4-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate.
- 10 26. Methyl (2-([(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetate.
27. 3-Chloro-N-[5-(2-isopropoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide.
28. 3-Chloro-N-[5-(2-methoxyethyl)-1,3-thiazol-2-yl]-
15 2-methylbenzenesulfonamide.
29. 2-(2-([(3-Chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)ethyl methanesulfonate.
30. 2-(2-([(3-Chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetamide.
- 20 31. 3-Chloro-N-{5-[2-(2-fluoroethoxy)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide.
32. 3-Chloro-2-methyl-N-{5-[2-(2,2,2-trifluoroethoxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.
33. 2-(2-([(3-Chloro-2-methylphenyl)sulfonyl]amino)-
25 1,3-thiazol-5-yl)ethyl acetate.
34. 3-Chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.

73529-289

35. N-[5-(2-Bromoethyl)-1,3-thiazol-2-yl]-3-chloro-2-methylbenzenesulfonamide.
36. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl morpholine-4-carboxylate.
- 5 37. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl diethylcarbamate.
38. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl propionate.
39. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-methylpropanoate.
- 10 40. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-furoate.
41. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl benzoate.
- 15 42. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methoxy-N-methylacetamide.
43. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl ethylcarbamate.
44. N-[2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-ethylacetamide.
- 20 45. 3-Chloro-2-methyl-N-[5-(2-oxopentyl)-1,3-thiazol-2-yl]benzenesulfonamide.
46. N-{5-[2-(1,1-Dioxidothiomorpholin-4-yl)-2-oxoethyl]-1,3-thiazol-2-yl}-4-propylbenzenesulfonamide.
- 25 47. 2,4-Dichloro-6-methyl-N-{5-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide.

73529-289

48. 3-Chloro-2-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.
49. 2,4-Dichloro-6-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 5 50. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
51. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide.
52. N-[5-(2-Oxo-2-thiomorpholin-4-ylethyl)-1,3-
10 thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
53. N-[5-(2-Oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide.
54. 2,4-Dichloro-6-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 15 55. N-[5-(2-Oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
56. N-[5-(2-Oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide.
57. 2,4-Dichloro-6-methyl-N-[5-(2-oxo-2-piperidin-1-
20 ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
58. Ethyl oxo(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
59. Ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)(oxo)acetate.
- 25 60. Ethyl oxo(2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

73529-289

61. Ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}(oxo)acetate.
62. 3-Chloro-2-methyl-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 5 63. 2,4,6-Trichloro-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
64. 2-{2-[(1,1'-Biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-ethyl-N-methylacetamide.
65. N-Ethyl-N-methyl-2-(2-{[(4-
10 propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide.
66. 2-(2-{[(2,4-Dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide.
67. N-[4-Methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-
15 thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
68. 2-{2-[(1,1'-Biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-isopropyl-N-methylacetamide.
69. 2-{2-[(1,1'-Biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diethylacetamide.
- 20 70. N,N-Diethyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide.
71. 2-(2-{[(2,4-Dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide.
- 25 72. Ethyl {2-{[(4-bromo-5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate.

73529-289

73. Ethyl (2-{{(3-bromo-5-chlorothien-2-yl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.
74. Ethyl {2-[(5-[1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate.
75. Ethyl {2-[(5-[2-(methylthio)pyrimidin-4-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate.
76. 2-{2-[(1,1'-Biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diisopropylacetamide.
- 10 77. N,N-Diisopropyl-2-(2-{{(4-propylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetamide.
78. 2-(2-{{(2,4-Dichloro-6-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide.
- 15 79. Methyl (4-methyl-2-{{(2,4,6-trichlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.
80. 2-(2-{{(3-Chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)-N,N-dipropylacetamide.
81. 3-Chloro-2-methyl-N-[5-(2-oxo-2-piperazin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 20 82. 4-Bromo-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
83. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-2,4-bis(trifluoromethyl)benzenesulfonamide.
- 25 84. 2-Methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-(trifluoromethoxy)benzenesulfonamide.

73529-289

85. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-phenoxybenzenesulfonamide.
86. Ethyl (2-{[(2,3,4-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
- 5 87. Ethyl (2-{[(4-bromo-2,5-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
88. Ethyl [2-({[4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate.
- 10 89. Ethyl [2-({[4-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate.
90. Ethyl [2-({[5-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate.
91. Ethyl (2-{[(2,6-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
- 15 92. Ethyl (2-{[(2,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
93. Tert-butyl 4-[(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetyl]piperazine-1-carboxylate.
- 20 94. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-dimethylacetamide.
95. 3-Chloro-2-methyl-N-{5-[2-(pyridin-3-yloxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.
- 25 96. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-isopropyl-N-methylacetamide.

73529-289

97. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide.
98. 3-Chloro-2-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 5 99. Ethyl (2-{[(4-bromo-2-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
100. 3-Chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
101. Methyl (2-{[(4-chlorophenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-yl)acetate.
- 10 102. Methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-yl)acetate.
103. 2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide.
- 15 104. 3-Chloro-2-methyl-N-[5-(2-oxo-2-pyrrolidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
105. Ethyl (2-{[(3-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
- 20 106. Ethyl (2-{[(5-fluoro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
107. Ethyl (2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.
108. 3-Chloro-2-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 25 109. Ethyl (2-{[(3,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

73529-289

110. Ethyl (2-{[(3,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

111. Ethyl (2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

5 112. 3-Chloro-2-methyl-N-[5-(morpholin-4-ylmethyl)-1,3-thiazol-2-yl]benzenesulfonamide.

113. 3-Chloro-N-{5-[2-(1H-imidazol-1-yl)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide.

114. N-[2-(2-{[(3-Chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]acetamide.

115. Ethyl [2-({[2-methyl-4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate.

15 116. Ethyl (2-{[(2,3,4-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

117. Ethyl (2-{[(2,4,6-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

20 118. 3-Chloro-2-methyl-N-(5-{2-[(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide.

119. Ethyl (2-{[(5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

25 120. Ethyl (2-{[(2-chloro-4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

121. Ethyl (2-{[(5-isoxazol-3-ylthien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

73529-289

122. Ethyl (2-{{(4-phenoxyphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate.

123. Ethyl [2-({[2,4-bis(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate.

124. 3-Chloro-2-methyl-N-{5-[2-(3-oxo-1,4-oxazepan-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.

125. 3-Chloro-2-methyl-N-{5-[2-(2-oxopyrrolidin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.

10 126. 3-Chloro-2-methyl-N-(5-{2-[methyl(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide.

127. N-[2-(2-{{(3-Chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)ethyl]-N-
15 methylcyclopropanecarboxamide.

128. 3-Chloro-2-methyl-N-{5-[2-(4-methyl-2-oxopiperazin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.

129. 3-Chloro-2-methyl-N-[5-(2-
20 {{(trifluoromethyl)sulfonyl}amino}ethyl)-1,3-thiazol-2-yl]benzenesulfonamide.

130. 2,4-Dichloro-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.

131. 2,4-Dichloro-6-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide.
25

132. 4-(2-Furyl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.

73529-289

133. 5'-Fluoro-2'-methoxy-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
134. 4-(5-Methylthien-2-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
- 5 135. 3'-Acetyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
136. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4'-(trifluoromethoxy)-1,1'-biphenyl-4-sulfonamide.
137. 3',4'-Dichloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
- 10 138. 4-(1,3-Benzodioxol-5-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide.
139. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-pyridin-4-ylbenzenesulfonamide.
- 15 140. N-[4'-({[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-3-yl]acetamide.
141. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-3-ylbenzenesulfonamide.
142. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-2-ylbenzenesulfonamide.
- 20 143. 4'-({[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-4-carboxylic acid.
144. 4'-(Methylthio)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.
- 25 145. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3',5'-bis(trifluoromethyl)-1,1'-biphenyl-4-sulfonamide.

73529-289

146. 4'-Chloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide.

147. N-[5-(2-Morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3'-nitro-1,1'-biphenyl-4-sulfonamide.

5 148. Isopropyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate.

149. A pharmaceutical composition comprising a compound according to any one of claims 1 to 148 and a pharmaceutically acceptable carrier or diluent.

10 150. A pharmaceutical composition according to claim 149 for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus
15 disease or an inflammatory disorder or for achieving immuno-modulation, in a mammal in need of said treatment or prevention.

151. A pharmaceutical composition according to claim 150 wherein the immuno-modulation is in a subject
20 suffering from tuberculosis, lepra or psoriasis.

152. A pharmaceutical composition according to claim 149 for inhibiting a human 11- β -hydroxysteroid dehydrogenase type 1 enzyme.

153. A pharmaceutical composition according to
25 claim 149 for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject in need thereof.

154. A pharmaceutical composition according to claim 153, wherein the disorder is diabetes, syndrome X,

73529-289

obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or an immuno-modulation disorder.

5 155. A pharmaceutical composition according to claim 154, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

156. A pharmaceutical composition according to any one of claims 153 to 155, wherein the subject is a human.

10 157. A use of a compound according to any one of claims 1 to 148 in preparation of a pharmaceutical composition for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia,
15 hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-modulation, in a mammal in need of said treatment or prevention.

158. A use according to claim 157, wherein the immuno-
20 modulation is in a subject suffering from tuberculosis, lepra or psoriasis.

159. A use of a compound according to any one of claims 1 to 148 in preparation of a pharmaceutical composition for inhibiting a human 11- β -hydroxysteroid
25 dehydrogenase type 1 enzyme.

160. A use of a compound according to any one of claims 1 to 148 in preparation of a pharmaceutical composition for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject
30 in need thereof.

73529-289

161. A use according to claim 160, wherein the disorder is diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or an immuno-modulation disorder.

162. A use according to claim 161, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

163. A use according to any one of claims 160 to 162, wherein the subject is a human.

164. A use of a compound according to any one of claims 1 to 148 for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-modulation, in a mammal in need of said treatment or prevention.

165. A use according to claim 164, wherein the immuno-modulation is in a subject suffering from tuberculosis, lepra or psoriasis.

166. A use of a compound according to any one of claims 1 to 148 for inhibiting a human 11- β -hydroxysteroid dehydrogenase type 1 enzyme.

167. A use of a compound according to any one of claims 1 to 148 for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject in need thereof.

168. A use according to claim 167, wherein the disorder is diabetes, syndrome X, obesity, glaucoma, hyperlipidemia,

73529-289

hyperglycemia without causing hypoglycemia,
hyperinsulinemia, hypertension, osteoporosis, dementia,
depression, a virus disease or an inflammatory disorder or
an immuno-modulation disorder.

5 169. A use according to claim 168, wherein the immuno-
modulation disorder is tuberculosis, lepra or psoriasis.

170. A use according to any one of claims 167 to 169,
wherein the subject is a human.

171. A compound according to any one of claims 1 to 148
10 for treatment or prevention of diabetes, syndrome X,
obesity, glaucoma, hyperlipidemia, hyperglycemia without
causing hypoglycemia, hyperinsulinemia, hypertension,
osteoporosis, dementia, depression, a virus disease or an
inflammatory disorder or for achieving immuno-modulation, in
15 a mammal in need of said treatment or prevention.

172. A compound according to claim 171, wherein the
immuno-modulation is in a subject suffering from
tuberculosis, lepra or psoriasis.

173. A compound according to any one of claims 1 to 148
20 for inhibiting a human 11- β -hydroxysteroid dehydrogenase
type 1 enzyme.

174. A compound according to any one of claims 1 to 148
for treating an 11- β -hydroxysteroid dehydrogenase type 1
enzyme-mediated disorder in a subject in need thereof.

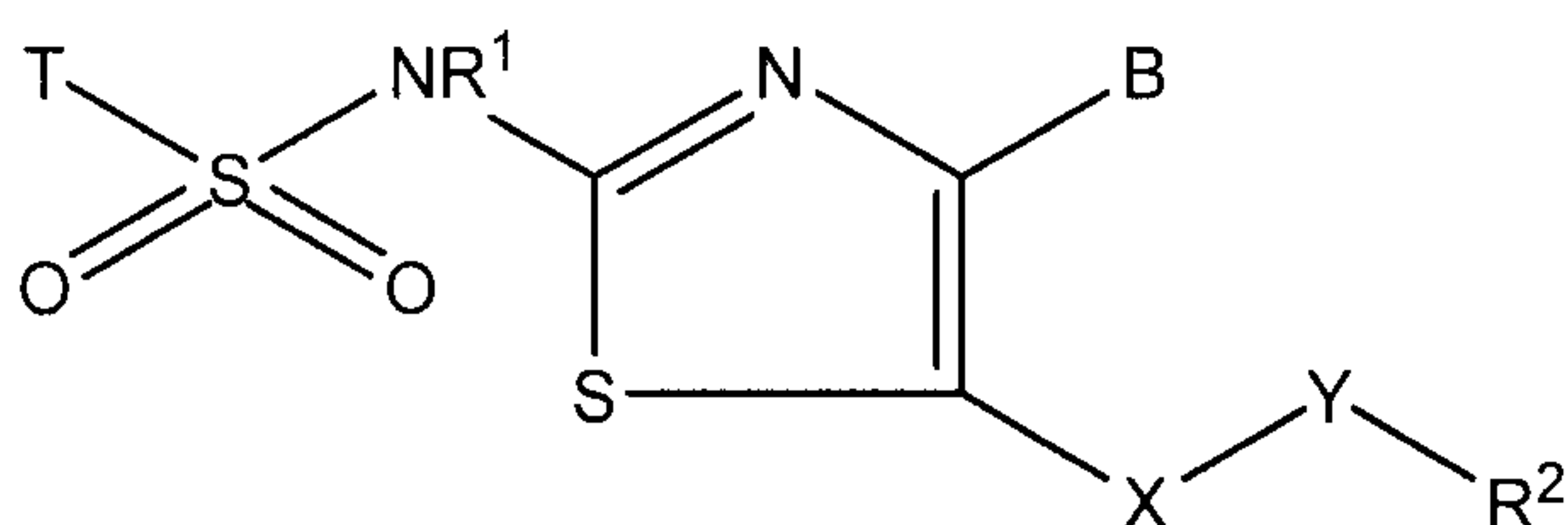
25 175. A compound according to claim 174, wherein the
disorder is diabetes, syndrome X, obesity, glaucoma,
hyperlipidemia, hyperglycemia without causing hypoglycemia,
hyperinsulinemia, hypertension, osteoporosis, dementia,
depression, a virus disease or an inflammatory disorder or
30 an immuno-modulation disorder.

73529-289

176. A compound according to claim 175, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

177. A compound according to any one of claims 174
5 to 176, wherein the subject is a human.

178. A use of a compound of formula (I) in preparation of a pharmaceutical composition for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia,
10 hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-modulation, in a mammal in need of said treatment or prevention, wherein the compound of formula (I) has the formula



15 wherein

T is selected from

5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-
2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl;
20 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of
(benzoylamino)methyl, bromo, chloro, 3-isoxazolyl,
2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-
(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, and pyridyl;

25 and

phenyl substituted with one or more of
3-acetylaminophenyl, 3-acetylphenyl, benzeneamino,

73529-289

1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino,
 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy,
 chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy,
 4-chlorophenyl, 5-chloro-2-thienyl, cyano,
 5 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-
 2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl,
 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl,
 methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-
 piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl,
 10 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl,
 n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl,
 2-thienyl, 3-thienyl, 2-thienylmethylamino,
 trifluoromethoxy, 4-trifluoromethoxyphenyl, and
 trifluoromethyl;

15 R^1 is hydrogen or C_{1-6} -alkyl;

X is CH_2 and Y is a single bond or CO; or

X is CO and Y is CH_2 ;

B is hydrogen, C_{1-6} -alkyl or dimethylaminomethyl;

R^2 is selected from

20 C_{1-6} -alkyl, azido, arylthio, heteroarylthio,
 halogen, hydroxymethyl, 2-hydroxyethylaminomethyl,
 methylsulfonyloxymethyl, 3-oxo-4-morpholinolylmethylene,
 C_{1-6} -alkoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl;

NR^3R^4 , wherein R^3 and R^4 are each independently
 25 selected from hydrogen, ethyl, isopropyl, n-propyl,
 cyclohexyl, optionally halogenated C_{1-6} -alkylsulfonyl,
 C_{1-6} -alkoxy, 2-methoxyethyl, 2-hydroxyethyl,
 1-methylimidazolylsulfonyl, C_{1-6} -acyl, cyclohexylmethyl,
 cyclopropanecarbonyl, aryl, optionally halogenated
 30 arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl,

73529-289

N-carbethoxypiperidyl, 3-chloro-2-methylphenylsulfonyl and C₁₋₆-alkyl substituted with one or more aryl, heterocyclic or heteroaryl, or

NR³R⁴ represent together a heterocyclic system
 5 which is selected from imidazole, piperidine, pyrrolidine, piperazine, morpholine, oxazepine, oxazole, thiomorpholine, 1,1-dioxidothiomorpholine, 2-(3,4-dihydro-2(1H)isoquinolinyl), and (1S,4S)-2-oxa-5-azabicyclo[2.2.1]hept-5-yl, optionally substituted by
 10 C₁₋₆-alkyl, C₁₋₆-acyl, hydroxy, oxo, or t-butoxycarbonyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen and C₁₋₆-alkyl or form together with the N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is hydrogen, benzyl, optionally
 15 halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl, C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, or 2-carbomethoxyphenyl;

or a pharmaceutically acceptable salt, hydrate or solvate thereof;

20 with the proviso that when:

X is CH₂, Y is CO, then R² is not hydroxy; and

X is CH₂, Y is a single bond, R² is methyl, B is methyl, then T is not 3-chloro-2-methylphenyl;

with the further provisos that:

25 the combination X-Y-R² does not represent C₁₋₆-alkyl or dimethylaminomethyl; and

73529-289

when R^1 is H, the combination X-Y- R^2 does not represent halogenated C_{1-6} -alkyl, C_{1-6} -acyl or C_{1-6} -alkoxycarbonyl;

wherein

5 aryl, as used in each instance above, is a monocyclic or bicyclic aromatic ring having from 6 to 10 ring carbon atoms;

heteroaryl, is a mono-, bi-, or tricyclic aromatic ring system having from 5 to 14 ring atoms selected from
10 carbon, nitrogen, sulfur, oxygen, and selenium, wherein at least one or more of the ring atoms are other than carbon; and

heterocyclic, as used in each instance above, is a saturated, partially saturated, or unsaturated mono-, bi-,
15 or tricyclic ring having from 4 to 14 ring atoms selected from carbon, oxygen, and nitrogen, wherein wherein at least one or more of the ring atoms are other than carbon.

179. The use according to claim 178, wherein the immuno-modulation is in a subject suffering from a disease
20 selected from tuberculosis, lepra, and psoriasis.

180. The use according to claim 178 or 179, wherein

R^1 is hydrogen or methyl;

B is hydrogen, methyl or dimethylaminomethyl;

R^2 is selected from

25 n-propyl, azido, bromo, chloro,
2-pyridinylsulfanyl, 3-oxo-4-morpholinolinylmethylene,
ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl,

73529-289

hydroxymethyl, 2-hydroxyethylaminomethyl,
 methylsulfonyloxymethyl;

NR³R⁴, wherein R³ and R⁴ are each independently
 selected from acetyl, benzhydryl, 1,3-benzodioxol-5-
 5 ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl,
 cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl,
 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl,
 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl,
 methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl,
 10 phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-
 furanylmethyl, trifluoromethylsulfonyl, and
 N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl,
 4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-
 15 2(1H)isoquinolinyl), (2R,6S)-2,6-dimethylmorpholinyl,
 (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl,
 imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-
 oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-
 oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolinyl,
 20 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolinyl,
 piperazinyl, piperidinyl, pyrrolidinyl, pyrrolidonyl,
 thiomorpholinyl, or 1,1-dioxido-thiomorpholinyl;

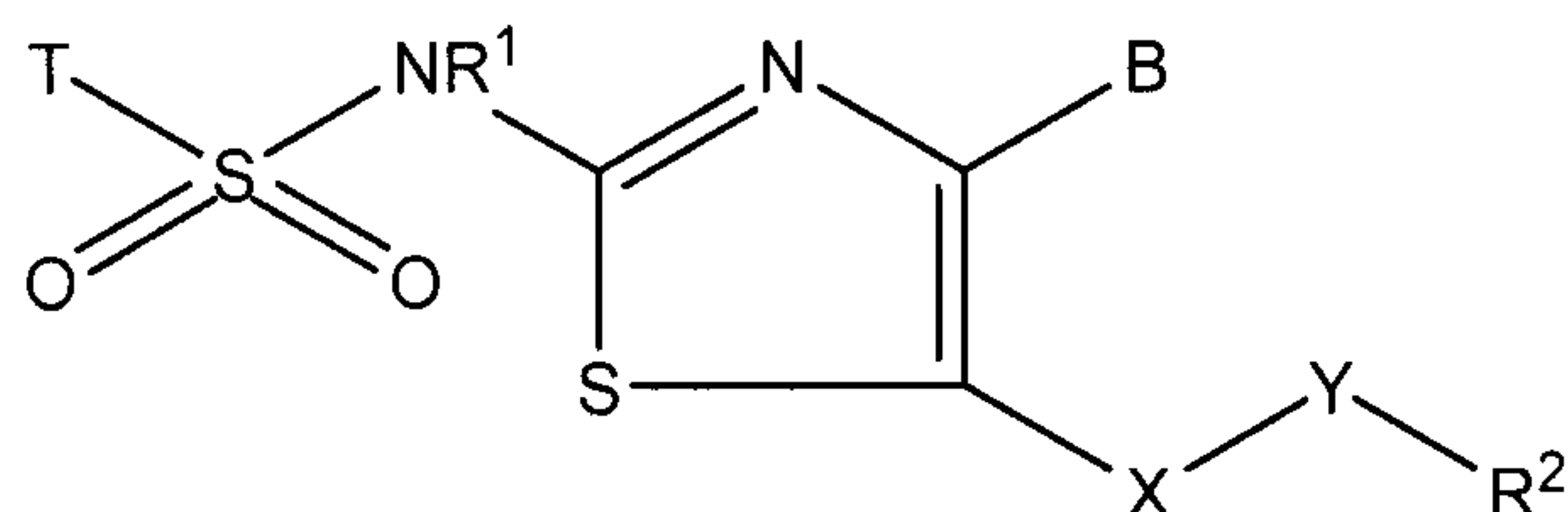
CONR³R⁴, wherein R³ and R⁴ are each independently
 selected from ethyl, and hydrogen or form together with the
 25 N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl,
 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl,
 isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl,
 phenyl, n-propionyl, 3-pyridinyl, or 2,2,2-trifluoroethyl.

181. A use of a compound of formula (I) for treatment
 or prevention of diabetes, syndrome X, obesity, glaucoma,

73529-289

hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-modulation, in a mammal in need of said
 5 treatment or prevention, wherein the compound of formula (I) has the formula



wherein

T is selected from

10 5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl; 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl, 15 2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, and pyridyl; and

phenyl substituted with one or more of 3-acetylaminophenyl, 3-acetylphenyl, benzeneamino, 20 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano, 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-25 2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl,

73529-289

4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl,
 n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl,
 2-thienyl, 3-thienyl, 2-thienylmethylamino,
 trifluoromethoxy, 4-trifluoromethoxyphenyl, and
 5 trifluoromethyl;

R^1 is hydrogen or C_{1-6} -alkyl;

X is CH_2 and Y is a single bond or CO; or

X is CO and Y is CH_2 ;

B is hydrogen, C_{1-6} -alkyl or dimethylaminomethyl;

10 R^2 is selected from

C_{1-6} -alkyl, azido, arylthio, heteroarylthio,
 halogen, hydroxymethyl, 2-hydroxyethylaminomethyl,
 methylsulfonyloxymethyl, 3-oxo-4-morpholinolinylmethylene,
 C_{1-6} -alkoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl;

15 NR^3R^4 , wherein R^3 and R^4 are each independently
 selected from hydrogen, ethyl, isopropyl, n-propyl,
 cyclohexyl, optionally halogenated C_{1-6} -alkylsulfonyl,
 C_{1-6} -alkoxy, 2-methoxyethyl, 2-hydroxyethyl,
 1-methylimidazolylsulfonyl, C_{1-6} -acyl, cyclohexylmethyl,
 20 cyclopropanecarbonyl, aryl, optionally halogenated
 arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl,
 N-carbethoxypiperidyl, 3-chloro-2-methylphenylsulfonyl and
 C_{1-6} -alkyl substituted with one or more aryl, heterocyclic or
 heteroaryl, or

25 NR^3R^4 represent together a heterocyclic system
 which is selected from imidazole, piperidine, pyrrolidine,
 piperazine, morpholine, oxazepine, oxazole, thiomorpholine,
 1,1-dioxidothiomorpholine, 2-(3,4-dihydro-
 2(1H)isoquinolinyl), and (1S,4S)-2-oxa-5-

73529-289

azabicyclo[2.2.1]hept-5-yl, optionally substituted by
C₁₋₆-alkyl, C₁₋₆-acyl, hydroxy, oxo, or t-butoxycarbonyl;

5 OCONR³R⁴, wherein R³ and R⁴ are each independently
selected from hydrogen and C₁₋₆-alkyl or form together with
the N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is hydrogen, benzyl, optionally
halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl,
C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, or
2-carbomethoxyphenyl;

10 or a pharmaceutically acceptable salt, hydrate or solvate
thereof;

with the proviso that when:

X is CH₂, Y is CO, then R² is not hydroxy; and

15 X is CH₂, Y is a single bond, R² is methyl, B is
methyl, then T is not 3-chloro-2-methylphenyl;

with the further provisos that:

the combination X-Y-R² does not represent C₁₋₆-alkyl
or dimethylaminomethyl; and

20 when R¹ is H, the combination X-Y-R² does not
represent halogenated C₁₋₆-alkyl, C₁₋₆-acyl or
C₁₋₆-alkoxycarbonyl;

wherein

25 aryl, as used in each instance above, is a
monocyclic or bicyclic aromatic ring having from 6 to 10
ring carbon atoms;

heteroaryl, is a mono-, bi-, or tricyclic aromatic
ring system having from 5 to 14 ring atoms selected from

73529-289

carbon, nitrogen, sulfur, oxygen, and selenium, wherein at least one or more of the ring atoms are other than carbon; and

heterocyclic, as used in each instance above, is a
 5 saturated, partially saturated, or unsaturated mono-, bi-, or tricyclic ring having from 4 to 14 ring atoms selected from carbon, oxygen, and nitrogen, wherein wherein at least one or more of the ring atoms are other than carbon.

182. The use according to claim 181, wherein the
 10 immuno-modulation is in a subject suffering from a disease selected from tuberculosis, lepra, and psoriasis.

183. The use according to claim 181 or 182, wherein

R^1 is hydrogen or methyl;

B is hydrogen, methyl or dimethylaminomethyl;

15 R^2 is selected from

n-propyl, azido, bromo, chloro,
 2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene,
 ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl,
 hydroxymethyl, 2-hydroxyethylaminomethyl,
 20 methylsulfonyloxymethyl;

NR^3R^4 , wherein R^3 and R^4 are each independently
 selected from acetyl, benzhydryl, 1,3-benzodioxol-5-
 ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl,
 cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl,
 25 2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl,
 2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl,
 methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl,
 phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-

73529-289

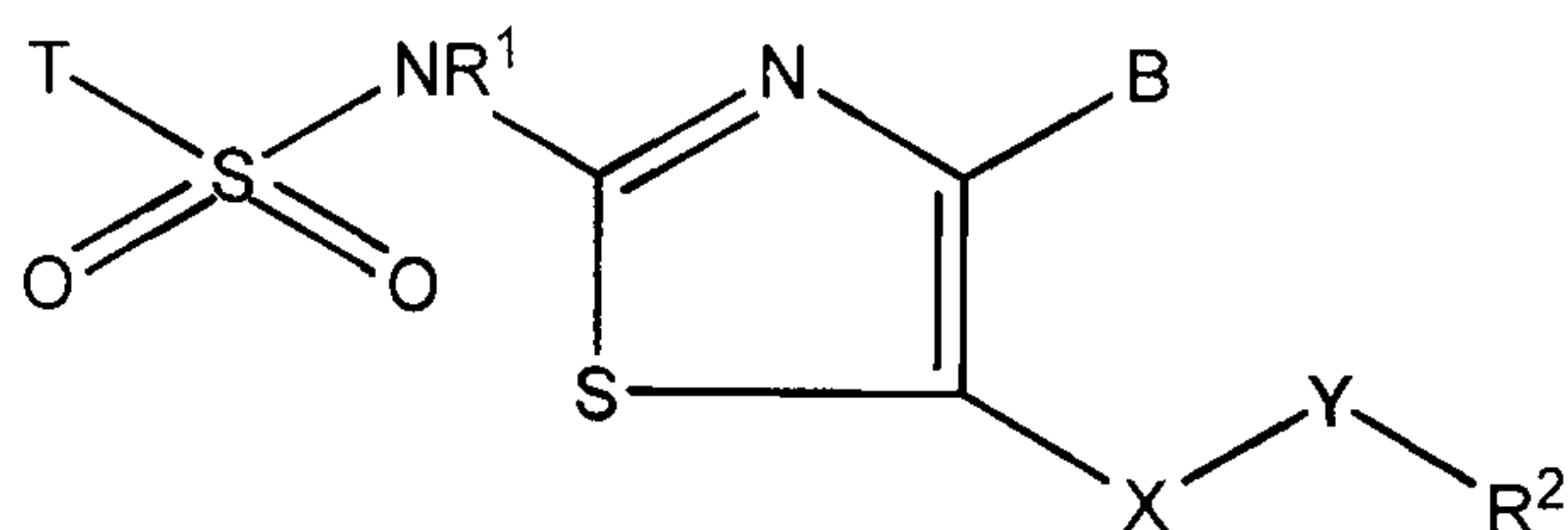
furanylmethyl, trifluoromethylsulfonyl, and
N-carbethoxypiperidyl; or

NR³R⁴ represent together 4-acetylpiperazinyl,
4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-
5 2(1H)isoquinolinyl), (2R,6S)-2,6-dimethylmorpholinyl,
(2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl,
imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-
oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-
oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl,
10 3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl,
piperazinyl, piperidinyl, pyrrolidinyl, pyrrolidonyl,
thiomorpholinyl, or 1,1-dioxido-thiomorpholinyl;

CONR³R⁴, wherein R³ and R⁴ are each independently
selected from ethyl, and hydrogen or form together with the
15 N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl,
2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl,
isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl,
phenyl, n-propionyl, 3-pyridinyl, or 2,2,2-trifluoroethyl.

20 184. A compound of formula (I) for treatment or
prevention of diabetes, syndrome X, obesity, glaucoma,
hyperlipidemia, hyperglycemia without causing hypoglycemia,
hyperinsulinemia, hypertension, osteoporosis, dementia,
depression, a virus disease or an inflammatory disorder or
25 for achieving immuno-modulation, in a mammal in need of said
treatment or prevention, wherein the compound of formula (I)
has the formula



73529-289

wherein

T is selected from

5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-
2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl;
5 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of
(benzoylamino)methyl, bromo, chloro, 3-isoxazolyl,
2-(methanesulfanyl)-4-pyrimidinyl, 1-methyl-5-
(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, and pyridyl;
10 and

phenyl substituted with one or more of
3-acetylamino, 3-acetyl, benzeneamino,
1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino,
3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy,
15 chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy,
4-chlorophenyl, 5-chloro-2-thienyl, cyano,
3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-
2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl,
2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl,
20 methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-
piperidinyl, 4-methanesulfanylphenyl, 5-methyl-2-thienyl,
4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl,
n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl,
2-thienyl, 3-thienyl, 2-thienylmethylamino,
25 trifluoromethoxy, 4-trifluoromethoxyphenyl, and
trifluoromethyl;

R¹ is hydrogen or C₁₋₆-alkyl;

X is CH₂ and Y is a single bond or CO; or

X is CO and Y is CH₂;

73529-289

B is hydrogen, C₁₋₆-alkyl or dimethylaminomethyl;

R² is selected from

C₁₋₆-alkyl, azido, arylthio, heteroarylthio, halogen, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl, 3-oxo-4-morpholinolinylmethylene, C₁₋₆-alkoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl;

NR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen, ethyl, isopropyl, n-propyl, cyclohexyl, optionally halogenated C₁₋₆-alkylsulfonyl, C₁₋₆-alkoxy, 2-methoxyethyl, 2-hydroxyethyl, 1-methylimidazolylsulfonyl, C₁₋₆-acyl, cyclohexylmethyl, cyclopropanecarbonyl, aryl, optionally halogenated arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl, N-carbethoxypiperidyl, 3-chloro-2-methylphenylsulfonyl and C₁₋₆-alkyl substituted with one or more aryl, heterocyclic or heteroaryl, or

NR³R⁴ represent together a heterocyclic system which is selected from imidazole, piperidine, pyrrolidine, piperazine, morpholine, oxazepine, oxazole, thiomorpholine, 1,1-dioxidothiomorpholine, 2-(3,4-dihydro-2(1H)isoquinolinyl), and (1S,4S)-2-oxa-5-azabicyclo[2.2.1]hept-5-yl, optionally substituted by C₁₋₆-alkyl, C₁₋₆-acyl, hydroxy, oxo, or t-butoxycarbonyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen and C₁₋₆-alkyl or form together with the N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is hydrogen, benzyl, optionally halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl, C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, or 2-carbomethoxyphenyl;

73529-289

or a pharmaceutically acceptable salt, hydrate or solvate thereof;

with the proviso that when:

X is CH₂, Y is CO, then R² is not hydroxy; and

5 X is CH₂, Y is a single bond, R² is methyl, B is methyl, then T is not 3-chloro-2-methylphenyl;

with the further provisos that:

the combination X-Y-R² does not represent C₁₋₆-alkyl or dimethylaminomethyl; and

10 when R¹ is H, the combination X-Y-R² does not represent halogenated C₁₋₆-alkyl, C₁₋₆-acyl or C₁₋₆-alkoxycarbonyl;

wherein

15 aryl, as used in each instance above, is a monocyclic or bicyclic aromatic ring having from 6 to 10 ring carbon atoms;

heteroaryl, is a mono-, bi-, or tricyclic aromatic ring system having from 5 to 14 ring atoms selected from carbon, nitrogen, sulfur, oxygen, and selenium, wherein at
20 least one or more of the ring atoms are other than carbon; and

heterocyclic, as used in each instance above, is a saturated, partially saturated, or unsaturated mono-, bi-, or tricyclic ring having from 4 to 14 ring atoms selected
25 from carbon, oxygen, and nitrogen, wherein wherein at least one or more of the ring atoms are other than carbon.

73529-289

185. A compound according to claim 184, wherein the immuno-modulation is in a subject suffering from a disease selected from tuberculosis, lepra, and psoriasis.

186. A compound according to claim 184 or 185, wherein

5 R^1 is hydrogen or methyl;

B is hydrogen, methyl or dimethylaminomethyl;

R^2 is selected from

n-propyl, azido, bromo, chloro,
2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene,
10 ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl,
hydroxymethyl, 2-hydroxyethylaminomethyl,
methylsulfonyloxymethyl;

NR^3R^4 , wherein R^3 and R^4 are each independently
selected from acetyl, benzhydryl, 1,3-benzodioxol-5-
15 ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl,
cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl,
2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl,
2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl,
methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl,
20 phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-
furanylmethyl, trifluoromethylsulfonyl, and
N-carbethoxypiperidyl; or

NR^3R^4 represent together 4-acetylpiperazinyl,
4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-
25 2(1H)isoquinolyl), (2R,6S)-2,6-dimethylmorpholyl,
(2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholyl,
imidazolyl, 2-methyl-3-oxomorpholyl, 4-methyl-2-
oxopiperazinyl, 4-methylpiperazinyl, morpholyl, (1S,4S)-2-
oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl,
30 3-oxomorpholyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl,

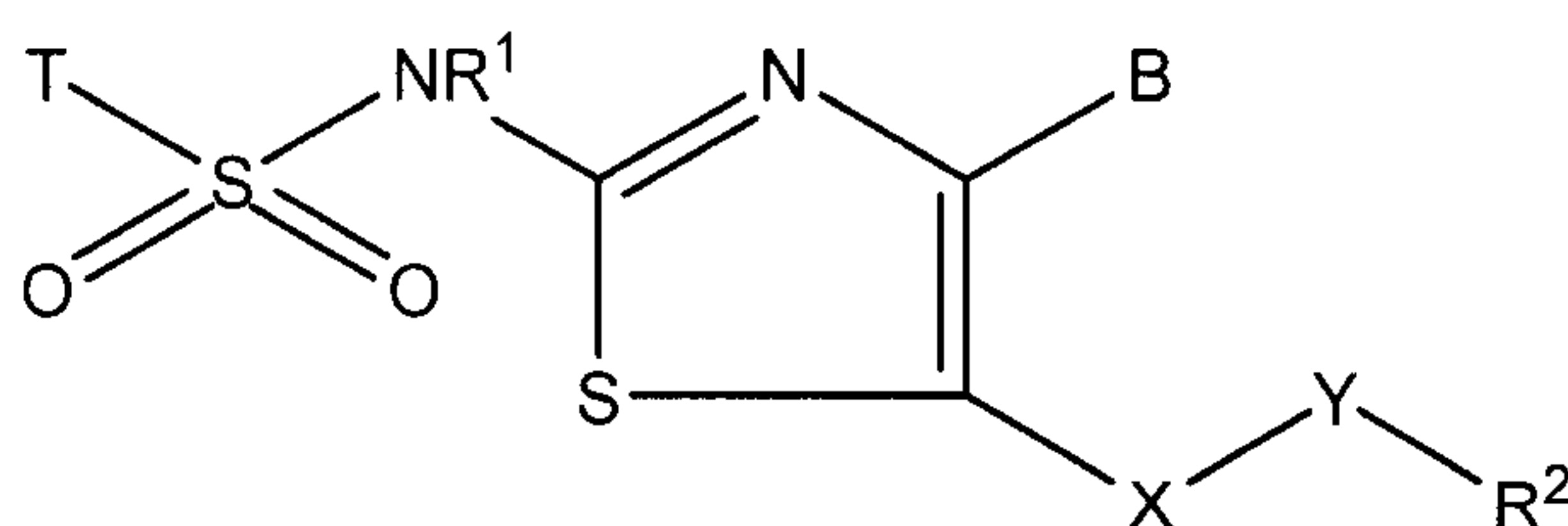
73529-289

piperazinyl, piperidinyl, pyrrolidinyl, pyrrolidonyl, thiomorpholinyl, or 1,1-dioxido-thiomorpholinyl;

5 OCONR³R⁴, wherein R³ and R⁴ are each independently selected from ethyl, and hydrogen or form together with the N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is acetyl, benzoyl, benzyl, ethyl, 2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl, isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, or 2,2,2-trifluoroethyl.

10 187. A pharmaceutical composition comprising a pharmaceutically acceptable carrier or diluent and a compound of formula (I) for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia,
15 hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-modulation, in a mammal in need of said treatment or prevention, wherein the compound of formula (I) has the formula



20 wherein

T is selected from

5-chloro-1,3-dimethyl-1H-pyrazol-4-yl; 4-chloro-2,3,1-benzoxadiazolyl; 5-(dimethylamino)-1-naphthyl;
25 1-methylimidazol-4-yl; 1-naphthyl; 2-naphthyl; 8-quinolinyl;

thienyl substituted with one or more of (benzoylamino)methyl, bromo, chloro, 3-isoxazolyl,

73529-289

2-(methylsulfanyl)-4-pyrimidinyl, 1-methyl-5-(trifluoromethyl)pyrazol-3-yl, phenylsulfonyl, and pyridyl; and

phenyl substituted with one or more of

5 3-acetylamino, 3-acetyl, benzeneamino, 1,3-benzodioxol-5-yl, 2-benzofuryl, benzylamino, 3,5-bis(trifluoromethyl)phenyl, bromo, butoxy, carboxy, chloro, 4-carboxyphenyl, 3-chloro-2-cyanophenoxy, 4-chlorophenyl, 5-chloro-2-thienyl, cyano,

10 3,4-dichlorophenyl, ({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl), fluoro, 5-fluoro-2-methoxyphenyl, 2-furyl, hydrogen, iodo, isopropyl, methanesulfonyl, methoxy, methyl, 4-methyl-1-piperazinyl, 4-methyl-1-piperidinyl, 4-methylsulfanylphenyl, 5-methyl-2-thienyl,

15 4-morpholinyl, nitro, 3-nitrophenyl, phenoxy, phenyl, n-propyl, 4-pyridyl, 3-pyridylmethylamino, 1-pyrrolidinyl, 2-thienyl, 3-thienyl, 2-thienylmethylamino, trifluoromethoxy, 4-trifluoromethoxyphenyl, and trifluoromethyl;

20 R^1 is hydrogen or C_{1-6} -alkyl;

X is CH_2 and Y is a single bond or CO; or

X is CO and Y is CH_2 ;

B is hydrogen, C_{1-6} -alkyl or dimethylaminomethyl;

R^2 is selected from

25 C_{1-6} -alkyl, azido, arylthio, heteroarylthio, halogen, hydroxymethyl, 2-hydroxyethylaminomethyl, methylsulfonyloxymethyl, 3-oxo-4-morpholinolylmethylene, C_{1-6} -alkoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl;

73529-289

NR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen, ethyl, isopropyl, n-propyl, cyclohexyl, optionally halogenated C₁₋₆-alkylsulfonyl, C₁₋₆-alkoxy, 2-methoxyethyl, 2-hydroxyethyl, 1-methylimidazolylsulfonyl, C₁₋₆-acyl, cyclohexylmethyl, cyclopropanecarbonyl, aryl, optionally halogenated arylsulfonyl, furylcarbonyl, tetrahydro-2-furanylmethyl, N-carbethoxypiperidyl, 3-chloro-2-methylphenylsulfonyl and C₁₋₆-alkyl substituted with one or more aryl, heterocyclic or heteroaryl, or

NR³R⁴ represent together a heterocyclic system which is selected from imidazole, piperidine, pyrrolidine, piperazine, morpholine, oxazepine, oxazole, thiomorpholine, 1,1-dioxidothiomorpholine, 2-(3,4-dihydro-2(1H)isoquinoliny), and (1S,4S)-2-oxa-5-azabicyclo[2.2.1]hept-5-yl, optionally substituted by C₁₋₆-alkyl, C₁₋₆-acyl, hydroxy, oxo, or t-butoxycarbonyl;

CONR³R⁴, wherein R³ and R⁴ are each independently selected from hydrogen and C₁₋₆-alkyl or form together with the N-atom to which they are attached morpholinyl; and

R⁵O, wherein R⁵ is hydrogen, benzyl, optionally halogenated C₁₋₆-alkyl, aryl, heteroaryl, C₁₋₆-acyl, C₁₋₆-alkylsulfonyl, arylcarbonyl, heteroarylcarbonyl, or 2-carbomethoxyphenyl;

or a pharmaceutically acceptable salt, hydrate or solvate thereof;

with the proviso that when:

X is CH₂, Y is CO, then R² is not hydroxy; and

X is CH₂, Y is a single bond, R² is methyl, B is methyl, then T is not 3-chloro-2-methylphenyl;

73529-289

with the further provisos that:

the combination X-Y-R² does not represent C₁₋₆-alkyl or dimethylaminomethyl; and

when R¹ is H, the combination X-Y-R² does not
5 represent halogenated C₁₋₆-alkyl, C₁₋₆-acyl or
C₁₋₆-alkoxycarbonyl;

wherein

aryl, as used in each instance above, is a
monocyclic or bicyclic aromatic ring having from 6 to 10
10 ring carbon atoms;

heteroaryl, is a mono-, bi-, or tricyclic aromatic
ring system having from 5 to 14 ring atoms selected from
carbon, nitrogen, sulfur, oxygen, and selenium, wherein at
least one or more of the ring atoms are other than carbon;
15 and

heterocyclic, as used in each instance above, is a
saturated, partially saturated, or unsaturated mono-, bi-,
or tricyclic ring having from 4 to 14 ring atoms selected
from carbon, oxygen, and nitrogen, wherein wherein at least
20 one or more of the ring atoms are other than carbon.

188. A pharmaceutical composition according to
claim 187, wherein the immuno-modulation is in a subject
suffering from a disease selected from tuberculosis, lepra,
and psoriasis.

25 189. A pharmaceutical composition according to
claim 187 or 188, wherein

R¹ is hydrogen or methyl;

B is hydrogen, methyl or dimethylaminomethyl;

73529-289

R^2 is selected from

n-propyl, azido, bromo, chloro,
2-pyridinylsulfanyl, 3-oxo-4-morpholinolylmethylene,
ethoxycarbonyl, 5-methyl-1,3,4-oxadiazol-2-yl,
5 hydroxymethyl, 2-hydroxyethylaminomethyl,
methylsulfonyloxymethyl;

NR^3R^4 , wherein R^3 and R^4 are each independently
selected from acetyl, benzhydryl, 1,3-benzodioxol-5-
ylmethyl, benzyl, 3-chloro-2-methylphenylsulfonyl,
10 cyclohexyl, cyclohexylmethyl, cyclopropanecarbonyl, ethyl,
2-furylcarbonyl, 2-furylmethyl, hydrogen, 2-hydroxyethyl,
2-(1H-indol-3-yl)ethyl, isopropyl, methoxy, 2-methoxyethyl,
methyl, 4-(1-methylimidazolyl)sulfonyl, methylsulfonyl,
phenyl, (1S)-phenylethyl, n-propyl, tetrahydro-2-
15 furanylmethyl, trifluoromethylsulfonyl, and
N-carbethoxypiperidyl; or

NR^3R^4 represent together 4-acetylpiperazinyl,
4-t-butoxycarbonylpiperazinyl, 2-(3,4-dihydro-
2(1H)isoquinolinyl), (2R,6S)-2,6-dimethylmorpholinyl,
20 (2R)-2,4-dimethyl-1-piperazinyl, 2-hydroxy-3-oxomorpholinyl,
imidazolyl, 2-methyl-3-oxomorpholinyl, 4-methyl-2-
oxopiperazinyl, 4-methylpiperazinyl, morpholinyl, (1S,4S)-2-
oxa-5-aza-bicyclo[2.2.1]hept-5-yl, 2-oxoimidazolyl,
3-oxomorpholinyl, 3-oxo-1,4-oxazepinyl, 2-oxooxazolyl,
25 piperazinyl, piperidinyl, pyrrolidinyl, pyrrolidonyl,
thiomorpholinyl, or 1,1-dioxido-thiomorpholinyl;

$CONR^3R^4$, wherein R^3 and R^4 are each independently
selected from ethyl, and hydrogen or form together with the
N-atom to which they are attached morpholinyl; and

30 R^5O , wherein R^5 is acetyl, benzoyl, benzyl, ethyl,
2-fluoroethyl, 2-furylcarbonyl, hydrogen, isobutyryl,

73529-289

isopropyl, methyl, 2-carbomethoxyphenyl, methylsulfonyl, phenyl, n-propionyl, 3-pyridinyl, or 2,2,2-trifluoroethyl.

190. A use of a compound in preparation of a pharmaceutical composition for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immunomodulation in a mammal in need of said treatment or prevention, wherein the compound is selected from:

ethyl (2-{[(2,4-dichloro-5-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorothien-3-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-[(1-naphthylsulfonyl)amino]-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methylacetamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethylacetamide,

73529-289

ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}acetate,

ethyl (2-{[(4-nitrophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 ethyl (2-{[(4-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

10 3-chloro-N-[5-(2-hydroxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

3-chloro-N-[5-(2-ethoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

ethyl (2-{[(3-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

15 ethyl (2-{[(4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-isopropylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

20 ethyl [2-({[4-({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide,

25 ethyl [2-({[2-(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

73529-289

ethyl [2-([3-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate,

5 ethyl [2-([4-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate,

methyl (2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)acetate,

10 3-chloro-N-[5-(2-isopropoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

3-chloro-N-[5-(2-methoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

2-(2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)ethyl methanesulfonate,

15 2-(2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)acetamide,

3-chloro-N-{5-[2-(2-fluoroethoxy)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide,

20 3-chloro-2-methyl-N-{5-[2-(2,2,2-trifluoroethoxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2-(2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)ethyl acetate,

3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

25 N-[5-(2-bromoethyl)-1,3-thiazol-2-yl]-3-chloro-2-methylbenzenesulfonamide,

73529-289

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl morpholine-4-carboxylate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl diethylcarbamate,

5 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl propionate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl 2-methylpropanoate,

10 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl 2-furoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl benzoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-methoxy-N-methylacetamide,

15 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl ethylcarbamate,

N-[2-(2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-
ethylacetamide,

20 3-chloro-2-methyl-N-[5-(2-oxopentyl)-1,3-thiazol-
2-yl]benzenesulfonamide,

N-{5-[2-(1,1-dioxidothiomorpholin-4-yl)-2-
oxoethyl]-1,3-thiazol-2-yl}-4-propylbenzenesulfonamide,

25 2,4-dichloro-6-methyl-N-{5-[2-(4-methylpiperazin-
1-yl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(3-oxomorpholin-4-
yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

73529-289

2,4-dichloro-6-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

5 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

10 N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

15 N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

20 ethyl oxo(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)(oxo)acetate,

ethyl oxo(2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}(oxo)acetate,

73529-289

3-chloro-2-methyl-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

2,4,6-trichloro-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-ethyl-N-methylacetamide,

N-ethyl-N-methyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

10 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

15 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-isopropyl-N-methylacetamide,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diethylacetamide,

N,N-diethyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

20 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide,

ethyl 2-{[(4-bromo-5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl 2-{[(3-bromo-5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl {2-[(5-[1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate,

ethyl {2-[(5-[2-(methylthio)pyrimidin-4-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate,

2-{2-[(1,1'-biphenyl-4-yl)sulfonyl]amino}-1,3-thiazol-5-yl}-N,N-diisopropylacetamide,

N,N-diisopropyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

methyl (4-methyl-2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-dipropylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-piperazin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

4-bromo-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-2,4-bis(trifluoromethyl)benzenesulfonamide,

2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-(trifluoromethoxy)benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-phenoxybenzenesulfonamide,

73529-289

ethyl (2-{[(2,3,4-trichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-bromo-2,5-
difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 ethyl [2-({[4-
(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-
yl]acetate,

ethyl [2-({[4-(phenylsulfonyl)thien-2-
yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

10 ethyl [2-({[5-(phenylsulfonyl)thien-2-
yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl (2-{[(2,6-dichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4-dichlorophenyl)sulfonyl]amino}-
15 1,3-thiazol-5-yl)acetate,

tert-butyl 4-[(2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-
yl)acetyl]piperazine-1-carboxylate,

2- (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
20 1,3-thiazol-5-yl)-N,N-dimethylacetamide,

3-chloro-2-methyl-N-{5-[2-(pyridin-3-yloxy)ethyl]-
1,3-thiazol-2-yl}benzenesulfonamide,

2- (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-isopropyl-N-methylacetamide,

25 2- (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

73529-289

3-chloro-2-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(4-bromo-2-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 3-chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

methyl (2-{[(4-chlorophenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-yl)acetate,

10 methyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-yl)acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

15 3-chloro-2-methyl-N-[5-(2-oxo-2-pyrrolidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(3-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(5-fluoro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

20 ethyl (2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

25 ethyl (2-{[(3,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(3,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(morpholin-4-ylmethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 3-chloro-N-{5-[2-(1H-imidazol-1-yl)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide,

N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]acetamide,

10 ethyl [2-({[2-methyl-4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl (2-{[(2,3,4-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

15 ethyl (2-{[(2,4,6-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-(5-{2-[(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide,

20 ethyl (2-{[(5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2-chloro-4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(5-isoxazol-3-ylthien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-phenoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl [2-([2,4-bis(trifluoromethyl)phenyl]sulfonyl)amino)-1,3-thiazol-5-yl]acetate,

3-chloro-2-methyl-N-{5-[2-(3-oxo-1,4-oxazepan-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(2-oxopyrrolidin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-(5-{2-[methyl(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide,

N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-methylcyclopropanecarboxamide,

3-chloro-2-methyl-N-{5-[2-(4-methyl-2-oxopiperazin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-[5-(2-{[(trifluoromethyl)sulfonyl]amino}ethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

2,4-dichloro-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2,4-dichloro-6-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

4-(2-furyl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5'-fluoro-2'-methoxy-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

73529-289

4-(5-methylthien-2-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

3'-acetyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

5 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4'-(trifluoromethoxy)-1,1'-biphenyl-4-sulfonamide,

3',4'-dichloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

10 4-(1,3-benzodioxol-5-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-pyridin-4-ylbenzenesulfonamide,

N-[4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-3-yl]acetamide,

15 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-3-ylbenzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-2-ylbenzenesulfonamide,

20 4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-4-carboxylic acid,

4'-(methylthio)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3',5'-bis(trifluoromethyl)-1,1'-biphenyl-4-sulfonamide,

25 4'-chloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

73529-289

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3'-nitro-1,1'-biphenyl-4-sulfonamide,

isopropyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate and

5 (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetic acid.

191. A use of a compound for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-
10 modulation in a mammal in need of said treatment or prevention, wherein the compound is selected from:

ethyl (2-{[(2,4-dichloro-5-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,
15

ethyl (2-{[(4-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

20 ethyl (2-{[(2,5-dichlorothien-3-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl {2-[(1-naphthylsulfonyl)amino]-1,3-thiazol-5-yl}acetate,
25

ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-methylacetamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-ethylacetamide,

5 ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-
thiazol-5-yl}acetate,

ethyl (2-{[(4-nitrophenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

10 ethyl (2-{[(4-methoxyphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

3-chloro-N-[5-(2-hydroxyethyl)-1,3-thiazol-2-yl]-
2-methylbenzenesulfonamide,

15 3-chloro-N-[5-(2-ethoxyethyl)-1,3-thiazol-2-yl]-2-
methylbenzenesulfonamide,

ethyl (2-{[(3-chlorophenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

20 ethyl (2-{[(4-fluorophenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

ethyl (2-{[(4-isopropylphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

25 ethyl [2-({[4-({[4-(2-ethoxy-2-oxoethyl)-1,3-
thiazol-2-yl]amino}carbonyl)phenyl]sulfonyl}amino)-1,3-
thiazol-5-yl]acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N,N-diethylacetamide,

73529-289

ethyl [2-([2-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate,

5 ethyl [2-([3-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate,

ethyl [2-([4-(trifluoromethyl)phenyl]sulfonyl)amino]-1,3-thiazol-5-yl]acetate,

10 methyl (2-([(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetate,

3-chloro-N-[5-(2-isopropoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

15 3-chloro-N-[5-(2-methoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

2-(2-([(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)ethyl methanesulfonate,

2-(2-([(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetamide,

20 3-chloro-N-{5-[2-(2-fluoroethoxy)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(2,2,2-trifluoroethoxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

25 2-(2-([(3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)ethyl acetate,

3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

73529-289

N-[5-(2-bromoethyl)-1,3-thiazol-2-yl]-3-chloro-2-methylbenzenesulfonamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl morpholine-4-carboxylate,

5 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl diethylcarbamate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl propionate,

10 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-methylpropanoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-furoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl benzoate,

15 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methoxy-N-methylacetamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl ethylcarbamate,

20 N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-ethylacetamide,

3-chloro-2-methyl-N-[5-(2-oxopentyl)-1,3-thiazol-2-yl]benzenesulfonamide,

25 N-{5-[2-(1,1-dioxidothiomorpholin-4-yl)-2-oxoethyl]-1,3-thiazol-2-yl}-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-{5-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

73529-289

3-chloro-2-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

10 N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

15 N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

20 2,4-dichloro-6-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl oxo(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)(oxo)acetate,

25 ethyl oxo(2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}(oxo)acetate,

3-chloro-2-methyl-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 2,4,6-trichloro-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-ethyl-N-methylacetamide,

10 N-ethyl-N-methyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

15 N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-isopropyl-N-methylacetamide,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diethylacetamide,

20 N,N-diethyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide,

25 ethyl (2-{[(4-bromo-5-chlorothien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{{(3-bromo-5-chlorothien-2-yl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

ethyl {2-[(5-[1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate,

ethyl {2-[(5-[2-(methylthio)pyrimidin-4-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diisopropylacetamide,

10 N,N-diisopropyl-2-(2-{{(4-propylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetamide,

2-(2-{{(2,4-dichloro-6-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

15 methyl (4-methyl-2-{{(2,4,6-trichlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

2-(2-{{(3-chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)-N,N-dipropylacetamide,

20 3-chloro-2-methyl-N-[5-(2-oxo-2-piperazin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

4-bromo-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-2,4-bis(trifluoromethyl)benzenesulfonamide,

25 2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-(trifluoromethoxy)benzenesulfonamide,

73529-289

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-phenoxybenzenesulfonamide,

ethyl (2-{[(2,3,4-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 ethyl (2-{[(4-bromo-2,5-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl [2-({[4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

10 ethyl [2-({[4-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl [2-({[5-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl (2-{[(2,6-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

tert-butyl 4-[(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetyl]piperazine-1-carboxylate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-dimethylacetamide,

3-chloro-2-methyl-N-{5-[2-(pyridin-3-yloxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

25 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-isopropyl-N-methylacetamide,

73529-289

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-thiomorpholin-4-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 ethyl (2-{[(4-bromo-2-
fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-
oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

10 methyl (2-{[(4-chlorophenyl)sulfonyl]amino}-4-
methyl-1,3-thiazol-5-yl)acetate,

methyl (2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-
yl)acetate,

15 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-pyrrolidin-1-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(3-methoxyphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

20 ethyl (2-{[(5-fluoro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-propylphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

25 3-chloro-2-methyl-N-[5-(2-oxo-2-piperidin-1-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(3,5-dichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{[(3,4-dichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4-dichloro-6-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 3-chloro-2-methyl-N-[5-(morpholin-4-ylmethyl)-1,3-
thiazol-2-yl]benzenesulfonamide,

3-chloro-N-{5-[2-(1H-imidazol-1-yl)ethyl]-1,3-
thiazol-2-yl}-2-methylbenzenesulfonamide,

10 N-[2-(2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-
yl)ethyl]acetamide,

ethyl [2-({[2-methyl-4-
(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-
yl]acetate,

15 ethyl (2-{[(2,3,4-trifluorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4,6-trifluorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

20 3-chloro-2-methyl-N-(5-{2-
[(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-
yl)benzenesulfonamide,

ethyl (2-{[(5-chlorothien-2-yl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(2-chloro-4-
fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(5-isoxazol-3-ylthien-2-
yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{{(4-phenoxyphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

ethyl [2-({[2,4-bis(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

3-chloro-2-methyl-N-{5-[2-(3-oxo-1,4-oxazepan-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(2-oxopyrrolidin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

10 3-chloro-2-methyl-N-(5-{2-[methyl(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide,

N-[2-(2-{{(3-chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)ethyl]-N-
15 methylcyclopropanecarboxamide,

3-chloro-2-methyl-N-{5-[2-(4-methyl-2-oxopiperazin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-[5-(2-
20 {{(trifluoromethyl)sulfonyl}amino}ethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

2,4-dichloro-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2,4-dichloro-6-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,
25

4-(2-furyl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

73529-289

5'-fluoro-2'-methoxy-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

4-(5-methylthien-2-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 3'-acetyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4'-(trifluoromethoxy)-1,1'-biphenyl-4-sulfonamide,

10 3',4'-dichloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

4-(1,3-benzodioxol-5-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-pyridin-4-ylbenzenesulfonamide,

15 N-[4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-3-yl]acetamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-3-ylbenzenesulfonamide,

20 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-2-ylbenzenesulfonamide,

4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-4-carboxylic acid,

4'-(methylthio)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

25 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3',5'-bis(trifluoromethyl)-1,1'-biphenyl-4-sulfonamide,

73529-289

4'-chloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3'-nitro-1,1'-biphenyl-4-sulfonamide,

5 isopropyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate and

(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetic acid.

192. A compound for treatment or prevention of diabetes,
 10 syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia
 without causing hypoglycemia, hyperinsulinemia, hypertension,
 osteoporosis, dementia, depression, a virus disease or an
 inflammatory disorder or for achieving immuno-modulation in a
 mammal in need of said treatment or prevention, wherein the
 15 compound is selected from:

ethyl (2-{[(2,4-dichloro-5-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

20 ethyl (2-{[(2,4-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorothien-3-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(2-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl {2-[(1-naphthylsulfonyl)amino]-1,3-thiazol-5-yl}acetate,

73529-289

ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methylacetamide,

5 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethylacetamide,

ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}acetate,

10 ethyl (2-{[(4-nitrophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

15 3-chloro-N-[5-(2-hydroxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

3-chloro-N-[5-(2-ethoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

20 ethyl (2-{[(3-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-isopropylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl [2-({[4-({[4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino}carbonyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

73529-289

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N,N-diethylacetamide,

ethyl [2-({[2-
(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-
5 yl]acetate,

ethyl [2-({[3-
(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-
yl]acetate,

ethyl [2-({[4-
10 (trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-
yl]acetate,

methyl (2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-N-[5-(2-isopropoxyethyl)-1,3-thiazol-2-
15 yl]-2-methylbenzenesulfonamide,

3-chloro-N-[5-(2-methoxyethyl)-1,3-thiazol-2-yl]-
2-methylbenzenesulfonamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl methanesulfonate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
20 1,3-thiazol-5-yl)acetamide,

3-chloro-N-{5-[2-(2-fluoroethoxy)ethyl]-1,3-
thiazol-2-yl}-2-methylbenzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(2,2,2-
25 trifluoroethoxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl acetate,

73529-289

3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-
1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-bromoethyl)-1,3-thiazol-2-yl]-3-chloro-2-
methylbenzenesulfonamide,

5 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl morpholine-4-carboxylate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl diethylcarbamate,

10 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl propionate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl 2-methylpropanoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl 2-furoate,

15 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl benzoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-methoxy-N-methylacetamide,

20 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)ethyl ethylcarbamate,

N-[2-(2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-
ethylacetamide,

25 3-chloro-2-methyl-N-[5-(2-oxopentyl)-1,3-thiazol-
2-yl]benzenesulfonamide,

N-{5-[2-(1,1-dioxidothiomorpholin-4-yl)-2-
oxoethyl]-1,3-thiazol-2-yl}-4-propylbenzenesulfonamide,

73529-289

2,4-dichloro-6-methyl-N-{5-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

5 2,4-dichloro-6-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

10 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

15 2,4-dichloro-6-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

20 N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl oxo(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)(oxo)acetate,

73529-289

ethyl oxo(2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}(oxo)acetate,

5 3-chloro-2-methyl-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

2,4,6-trichloro-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

10 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-ethyl-N-methylacetamide,

N-ethyl-N-methyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

15 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-isopropyl-N-methylacetamide,

20 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diethylacetamide,

N,N-diethyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

25 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diethylacetamide,

73529-289

ethyl (2-{{(4-bromo-5-chlorothien-2-yl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{{(3-bromo-5-chlorothien-2-yl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

5 ethyl {2-[(5-[1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate,

ethyl {2-[(5-[2-(methylthio)pyrimidin-4-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl}acetate,

10 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diisopropylacetamide,

N,N-diisopropyl-2-(2-{{(4-propylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetamide,

15 2-(2-{{(2,4-dichloro-6-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

methyl (4-methyl-2-{{(2,4,6-trichlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

20 2-(2-{{(3-chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)-N,N-dipropylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-piperazin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

4-bromo-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

25 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-2,4-bis(trifluoromethyl)benzenesulfonamide,

73529-289

2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-(trifluoromethoxy)benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-phenoxybenzenesulfonamide,

5 ethyl (2-{[(2,3,4-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-bromo-2,5-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

10 ethyl [2-({[4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl [2-({[4-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

15 ethyl [2-({[5-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl (2-{[(2,6-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

20 tert-butyl 4-[(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetyl]piperazine-1-carboxylate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N,N-dimethylacetamide,

25 3-chloro-2-methyl-N-{5-[2-(pyridin-3-yloxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

73529-289

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-isopropyl-N-methylacetamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

5 3-chloro-2-methyl-N-[5-(2-oxo-2-thiomorpholin-4-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(4-bromo-2-
fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

10 3-chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-
oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

methyl (2-{[(4-chlorophenyl)sulfonyl]amino}-4-
methyl-1,3-thiazol-5-yl)acetate,

15 methyl (2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-
yl)acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-pyrrolidin-1-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

20 ethyl (2-{[(3-methoxyphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

ethyl (2-{[(5-fluoro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(4-propylphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(2-oxo-2-piperidin-1-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

73529-289

ethyl (2-{[(3,5-dichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(3,4-dichlorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

5 ethyl (2-{[(2,4-dichloro-6-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(morpholin-4-ylmethyl)-1,3-
thiazol-2-yl]benzenesulfonamide,

10 3-chloro-N-{5-[2-(1H-imidazol-1-yl)ethyl]-1,3-
thiazol-2-yl}-2-methylbenzenesulfonamide,

N-[2-(2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-
yl)ethyl]acetamide,

15 ethyl [2-({[2-methyl-4-
(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-
yl]acetate,

ethyl (2-{[(2,3,4-trifluorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

20 ethyl (2-{[(2,4,6-trifluorophenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-(5-{2-
[(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-
yl)benzenesulfonamide,

25 ethyl (2-{[(5-chlorothien-2-yl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2-chloro-4-
fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{[(5-isoxazol-3-ylthien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-phenoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 ethyl [2-({[2,4-bis(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

3-chloro-2-methyl-N-{5-[2-(3-oxo-1,4-oxazepan-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

10 3-chloro-2-methyl-N-{5-[2-(2-oxopyrrolidin-1-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-(5-{2-[methyl(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide,

15 N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-methylcyclopropanecarboxamide,

3-chloro-2-methyl-N-{5-[2-(4-methyl-2-oxopiperazin-1-yl)ethyl]-1,3-thiazol-2-

20 yl}benzenesulfonamide,

3-chloro-2-methyl-N-[5-(2-{[(trifluoromethyl)sulfonyl]amino}ethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

25 2,4-dichloro-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2,4-dichloro-6-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

73529-289

4-(2-furyl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5'-fluoro-2'-methoxy-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

5 4-(5-methylthien-2-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

3'-acetyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

10 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4'-(trifluoromethoxy)-1,1'-biphenyl-4-sulfonamide,

3',4'-dichloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

4-(1,3-benzodioxol-5-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

15 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-pyridin-4-ylbenzenesulfonamide,

N-[4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-3-yl]acetamide,

20 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-3-ylbenzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-2-ylbenzenesulfonamide,

4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino}sulfonyl)-1,1'-biphenyl-4-carboxylic acid,

25 4'-(methylthio)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

73529-289

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3',5'-bis(trifluoromethyl)-1,1'-biphenyl-4-sulfonamide,

4'-chloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

5 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3'-nitro-1,1'-biphenyl-4-sulfonamide,

isopropyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate and

10 (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetic acid.

193. A pharmaceutical composition comprising a pharmaceutically acceptable carrier or diluent and a compound for treatment or prevention of diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing
15 hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or for achieving immuno-modulation in a mammal in need of said treatment or prevention, wherein the compound is selected from:

20 ethyl (2-{[(2,4-dichloro-5-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(2,4-difluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorothien-3-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{[(2-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl {2-[(1-naphthylsulfonyl)amino]-1,3-thiazol-5-yl}acetate,

5 ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methylacetamide,

10 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethylacetamide,

ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}acetate,

ethyl (2-{[(4-nitrophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

15 ethyl (2-{[(4-methoxyphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

20 3-chloro-N-[5-(2-hydroxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

3-chloro-N-[5-(2-ethoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

ethyl (2-{[(3-chlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 ethyl (2-{[(4-fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-([4-isopropylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)acetate,

ethyl [2-([4-([4-(2-ethoxy-2-oxoethyl)-1,3-thiazol-2-yl]amino)carbonyl]phenyl]sulfonyl)amino)-1,3-thiazol-5-yl]acetate,

2-(2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)-N,N-diethylacetamide,

ethyl [2-([2-(trifluoromethyl)phenyl]sulfonyl)amino)-1,3-thiazol-5-yl]acetate,

ethyl [2-([3-(trifluoromethyl)phenyl]sulfonyl)amino)-1,3-thiazol-5-yl]acetate,

ethyl [2-([4-(trifluoromethyl)phenyl]sulfonyl)amino)-1,3-thiazol-5-yl]acetate,

methyl (2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)acetate,

3-chloro-N-[5-(2-isopropoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

3-chloro-N-[5-(2-methoxyethyl)-1,3-thiazol-2-yl]-2-methylbenzenesulfonamide,

2-(2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)ethyl methanesulfonate,

2-(2-([3-chloro-2-methylphenyl]sulfonyl)amino)-1,3-thiazol-5-yl)acetamide,

73529-289

3-chloro-N-{5-[2-(2-fluoroethoxy)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(2,2,2-trifluoroethoxy)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

5 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl acetate,

3-chloro-2-methyl-N-[5-(2-morpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

10 N-[5-(2-bromoethyl)-1,3-thiazol-2-yl]-3-chloro-2-methylbenzenesulfonamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl morpholine-4-carboxylate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl diethylcarbamate,

15 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl propionate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-methylpropanoate,

20 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl 2-furoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl benzoate,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-methoxy-N-methylacetamide,

25 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl ethylcarbamate,

73529-289

N-[2-(2-{{(3-chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)ethyl]-N-ethylacetamide,

5 3-chloro-2-methyl-N-[5-(2-oxopentyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-{5-[2-(1,1-dioxidothiomorpholin-4-yl)-2-oxoethyl]-1,3-thiazol-2-yl}-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-{5-[2-(4-methylpiperazin-1-yl)-2-oxoethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

10 3-chloro-2-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

15 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

20 N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

2,4-dichloro-6-methyl-N-[5-(2-oxo-2-thiomorpholin-4-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

25 N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]-4-propylbenzenesulfonamide,

73529-289

2,4-dichloro-6-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl oxo(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 ethyl (2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl) (oxo)acetate,

ethyl oxo(2-{[(2,4,6-trichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

10 ethyl {2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl} (oxo)acetate,

3-chloro-2-methyl-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

2,4,6-trichloro-N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

15 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-ethyl-N-methylacetamide,

N-ethyl-N-methyl-2-(2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetamide,

20 2-(2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

N-[4-methyl-5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

25 2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N-isopropyl-N-methylacetamide,

2-{2-[(1,1'-biphenyl-4-ylsulfonyl)amino]-1,3-thiazol-5-yl}-N,N-diethylacetamide,

73529-289

N,N-diethyl-2-(2-([4-propylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetamide,

2-(2-([2,4-dichloro-6-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)-N,N-
5 diethylacetamide,

ethyl (2-([4-bromo-5-chlorothien-2-yl)sulfonyl]amino)-1,3-thiazol-5-yl)acetate,

ethyl (2-([3-bromo-5-chlorothien-2-yl)sulfonyl]amino)-1,3-thiazol-5-yl)acetate,

10 ethyl {2-[(5-[1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl {2-[(5-[2-(methylthio)pyrimidin-4-yl]thien-2-yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

15 2-{2-[(1,1'-biphenyl-4-ylsulfonyl]amino}-1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

N,N-diisopropyl-2-(2-([4-propylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetamide,

2-(2-([2,4-dichloro-6-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)-N,N-
20 diisopropylacetamide,

methyl (4-methyl-2-([2,4,6-trichlorophenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetate,

2-(2-([3-chloro-2-methylphenyl)sulfonyl]amino)-
25 1,3-thiazol-5-yl)-N,N-dipropylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-piperazin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

73529-289

4-bromo-2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-2,4-bis(trifluoromethyl)benzenesulfonamide,

5 2-methyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-(trifluoromethoxy)benzenesulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-phenoxybenzenesulfonamide,

10 ethyl (2-{{(2,3,4-trichlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{{(4-bromo-2,5-difluorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

15 ethyl [2-({[4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl [2-({[4-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl [2-({[5-(phenylsulfonyl)thien-2-yl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

20 ethyl (2-{{(2,6-dichlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{{(2,4-dichlorophenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetate,

25 tert-butyl 4-[(2-{{(3-chloro-2-methylphenyl)sulfonyl}amino}-1,3-thiazol-5-yl)acetyl]piperazine-1-carboxylate,

73529-289

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N,N-dimethylacetamide,

3-chloro-2-methyl-N-{5-[2-(pyridin-3-yloxy)ethyl]-
1,3-thiazol-2-yl}benzenesulfonamide,

5 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-isopropyl-N-methylacetamide,

2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N-ethyl-N-methylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-thiomorpholin-4-
10 ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(4-bromo-2-
fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(2-morpholin-4-yl-2-
oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

15 methyl (2-{[(4-chlorophenyl)sulfonyl]amino}-4-
methyl-1,3-thiazol-5-yl)acetate,

methyl (2-{[(3-chloro-2-
methylphenyl)sulfonyl]amino}-4-methyl-1,3-thiazol-5-
yl)acetate,

20 2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-
1,3-thiazol-5-yl)-N,N-diisopropylacetamide,

3-chloro-2-methyl-N-[5-(2-oxo-2-pyrrolidin-1-
ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

ethyl (2-{[(3-methoxyphenyl)sulfonyl]amino}-1,3-
25 thiazol-5-yl)acetate,

ethyl (2-{[(5-fluoro-2-
methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

73529-289

ethyl (2-{[(4-propylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(2-oxo-2-piperidin-1-ylethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5 ethyl (2-{[(3,5-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(3,4-dichlorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

10 ethyl (2-{[(2,4-dichloro-6-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

3-chloro-2-methyl-N-[5-(morpholin-4-ylmethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

3-chloro-N-{5-[2-(1H-imidazol-1-yl)ethyl]-1,3-thiazol-2-yl}-2-methylbenzenesulfonamide,

15 N-[2-(2-{[(3-chloro-2-methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]acetamide,

20 ethyl [2-({[2-methyl-4-(trifluoromethoxy)phenyl]sulfonyl}amino)-1,3-thiazol-5-yl]acetate,

ethyl (2-{[(2,3,4-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2,4,6-trifluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

25 3-chloro-2-methyl-N-(5-{2-[(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-yl)benzenesulfonamide,

73529-289

ethyl (2-{[(5-chlorothien-2-yl)sulfonyl]amino}-
1,3-thiazol-5-yl)acetate,

ethyl (2-{[(2-chloro-4-
fluorophenyl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

5 ethyl (2-{[(5-isoxazol-3-ylthien-2-
yl)sulfonyl]amino}-1,3-thiazol-5-yl)acetate,

ethyl (2-{[(4-phenoxyphenyl)sulfonyl]amino}-1,3-
thiazol-5-yl)acetate,

ethyl [2-({[2,4-
10 bis(trifluoromethyl)phenyl]sulfonyl}amino)-1,3-thiazol-5-
yl]acetate,

3-chloro-2-methyl-N-{5-[2-(3-oxo-1,4-oxazepan-4-
yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-{5-[2-(2-oxopyrrolidin-1-
15 yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

3-chloro-2-methyl-N-(5-{2-
[methyl(methylsulfonyl)amino]ethyl}-1,3-thiazol-2-
yl)benzenesulfonamide,

N-[2-(2-{[(3-chloro-2-
20 methylphenyl)sulfonyl]amino}-1,3-thiazol-5-yl)ethyl]-N-
methylcyclopropanecarboxamide,

3-chloro-2-methyl-N-{5-[2-(4-methyl-2-
oxopiperazin-1-yl)ethyl]-1,3-thiazol-2-
yl}benzenesulfonamide,

25 3-chloro-2-methyl-N-[5-(2-
{[(trifluoromethyl)sulfonyl]amino}ethyl)-1,3-thiazol-2-
yl]benzenesulfonamide,

73529-289

2,4-dichloro-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

2,4-dichloro-6-methyl-N-{5-[2-(3-oxomorpholin-4-yl)ethyl]-1,3-thiazol-2-yl}benzenesulfonamide,

5 4-(2-furyl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

5'-fluoro-2'-methoxy-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

10 4-(5-methylthien-2-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

3'-acetyl-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4'-(trifluoromethoxy)-1,1'-biphenyl-4-sulfonamide,

15 3',4'-dichloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

4-(1,3-benzodioxol-5-yl)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]benzenesulfonamide,

20 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-pyridin-4-ylbenzenesulfonamide,

N-[4'-({[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino)sulfonyl}-1,1'-biphenyl-3-yl]acetamide,

N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-3-ylbenzenesulfonamide,

25 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-4-thien-2-ylbenzenesulfonamide,

73529-289

4'-([5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]amino)sulfonyl)-1,1'-biphenyl-4-carboxylic acid,

4'-(methylthio)-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

5 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3',5'-bis(trifluoromethyl)-1,1'-biphenyl-4-sulfonamide,

4'-chloro-N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-1,1'-biphenyl-4-sulfonamide,

10 N-[5-(2-morpholin-4-yl-2-oxoethyl)-1,3-thiazol-2-yl]-3'-nitro-1,1'-biphenyl-4-sulfonamide,

isopropyl (2-([3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetate and

(2-([3-chloro-2-methylphenyl)sulfonyl]amino)-1,3-thiazol-5-yl)acetic acid.

15 194. A use of a compound as defined in any one of claims 178, 180 and 190 in preparation of a pharmaceutical composition for inhibiting a human 11- β -hydroxysteroid dehydrogenase type 1 enzyme in a subject in need thereof.

195. A use of a compound as defined in any one
20 of claims 178, 180 and 190 for inhibiting a human 11- β -hydroxysteroid dehydrogenase type 1 enzyme in a subject in need thereof.

196. A compound as defined in any one of claims 178, 180 and 190 for inhibiting a human 11- β -hydroxysteroid
25 dehydrogenase type 1 enzyme in a subject in need thereof.

197. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a compound as defined in any one of claims 178, 180 and 190 for inhibiting

73529-289

a human 11- β -hydroxysteroid dehydrogenase type 1 enzyme in a subject in need thereof.

198. A use of a compound as defined in any one of claims 178, 180 and 190 in preparation of a pharmaceutical composition for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject in need thereof.

199. A use according to claim 198, wherein the disorder is diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or an immuno-modulation disorder.

200. A use according to claim 199, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

201. A use according to any one of claims 198 to 200, wherein the subject is a human.

202. A use of a compound as defined in any one of claims 178, 180 and 190 for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject in need thereof.

203. A use according to claim 202, wherein the disorder is diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or an immuno-modulation disorder.

204. A use according to claim 203, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

73529-289

205. A use according to any one of claims 202 to 204, wherein the subject is a human.

206. A compound as defined in any one of claims 178, 180 and 190 for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject in need thereof.

207. A compound according to claim 206, wherein the disorder is diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or an immuno-modulation disorder.

208. A compound according to claim 207, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

209. A compound according to any one of claims 206 to 208, wherein the subject is a human.

210. A pharmaceutical composition comprising a pharmaceutically acceptable carrier or diluent and a compound as defined in any one of claims 178, 180 and 190 for treating an 11- β -hydroxysteroid dehydrogenase type 1 enzyme-mediated disorder in a subject in need thereof.

211. A pharmaceutical composition according to claim 210, wherein the disorder is diabetes, syndrome X, obesity, glaucoma, hyperlipidemia, hyperglycemia without causing hypoglycemia, hyperinsulinemia, hypertension, osteoporosis, dementia, depression, a virus disease or an inflammatory disorder or an immuno-modulation disorder.

212. A pharmaceutical composition according to

73529-289

claim 211, wherein the immuno-modulation disorder is tuberculosis, lepra or psoriasis.

213. A pharmaceutical composition according to any one of claims 210 to 212, wherein the subject is a human.

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OTTAWA, CANADA

PATENT AGENTS

