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DESCRIPCIÓN

Antagonistas de NPY-Y5.

5 **Ámbito técnico**

La presente invención se refiere a una composición farmacéutica para utilizar como antagonista del receptor de NPY-Y5, en especial, como agente contra la obesidad y a nuevos compuestos que tengan actividad contra la obesidad.

10 **Antecedentes de la invención**

El neuropéptido Y (llamada a continuación NPY) es un péptido formado por 36 restos aminoácido y en 1982 se aisló del cerebro porcino. El NPY está ampliamente distribuido en el sistema nervioso central y tejidos periféricos de seres humanos y de animales.

Se ha publicado que el NPY posee actividad estimulante de la ingestión de comida, actividad anti-apoplejía, actividad de facilitar el aprendizaje, actividad antiansiedad, actividad antiestrés, etc. en el sistema nervioso central, y puede intervenir de modo crucial en enfermedades del sistema nervioso central, tales como la depresión, la enfermedad de Alzheimer y la enfermedad de Parkinson. Se cree que el NPY está asociado con las enfermedades cardiovasculares, porque induce la contracción de los músculos lisos, tales como los vasos sanguíneos o los músculos cardíacos de tejidos periféricos. Además, se sabe también que el NPY interviene en las enfermedades metabólicas, tales como la obesidad, la diabetes y las anomalías hormonales (Trends in Pharmacological Sciences, vol. 15, 153, 1994). Se espera, pues, que el antagonista de receptor de NPY sea un fármaco eficaz para prevenir o tratar diversas enfermedades, en las que interviene el receptor de NPY.

Ahora se han identificado los subtipos Y1, Y2, Y3, Y4, Y5 e Y6 de receptores de NPY (Trends in Pharmacological Sciences, vol. 18, 372, 1997). Se ha sugerido que el receptor Y5 interviene por lo menos en el comportamiento de alimentación y se espera que su antagonista sea un agente contra la obesidad (Peptides, vol. 18, 445, 1997).

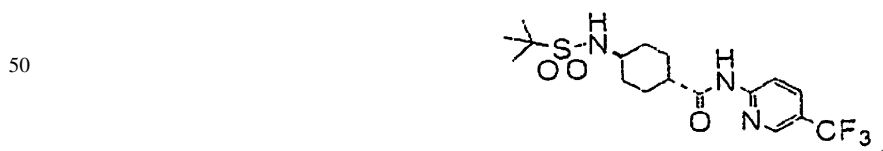
Los compuestos de quinazolina que tienen estructuras similares a las de los compuestos de la presente invención y despliegan actividad antagonista contra el receptor del NPY se han descrito en los documentos WO 97/20820, WO 97/20821, WO 97/20823 y similares. Se ha descrito además que los derivados de urea que tienen un grupo sulfonamida y los derivados de amida que tienen un grupo sulfonilo en WO 99/64349 y los derivados de bencil-sulfonamida en EP-1010691-A, tienen actividad antagonista del NPY.

Los compuestos que tienen estructuras similares a las de los compuestos de la presente invención se describen en los documentos JP 59-16871-A y WO 97/15567. Sus actividades son completamente diferentes de las de la presente invención y estos documentos no sugieren la finalidad que es objeto de la presente invención.

40 **Descripción de la invención**

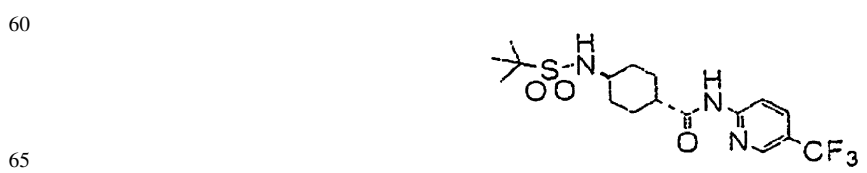
Es objeto de la presente invención proporcionar una composición farmacéutica superior para el uso como antagonista de receptor de NPY Y5 y nuevos compuestos que tengan dicha actividad.

La presente invención proporciona un compuesto de la fórmula

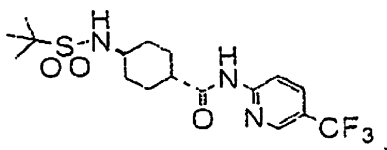


55 o una sal o un solvato farmacéuticamente aceptable del mismo;

una composición farmacéutica que contiene un compuesto de la fórmula:



un compuesto de la fórmula:



o una sal o un solvato farmacéuticamente aceptable del mismo para usar en el tratamiento de la obesidad.

El mejor modo de poner en práctica la invención

Los compuestos de la presente invención incluyen a todas las sales que puedan formarse a partir de los mismos y sean farmacéuticamente aceptables. Los ejemplos de "sales farmacéuticamente aceptables" son las sales de ácidos inorgánicos, tales como el ácido clorhídrico, ácido sulfúrico, ácido nítrico y ácido fosfórico; las sales de ácidos orgánicos, tales como el ácido para-toluenosulfónico, ácido metanosulfónico, ácido oxálico y ácido cítrico; las sales de bases orgánicas, tales como las sales de amonio, de trimetilamonio y de trietilamonio; las sales de metales alcalinos, tales como el sodio y el potasio; y las sales de metales alcalinotérreos, tales como el calcio y el magnesio.

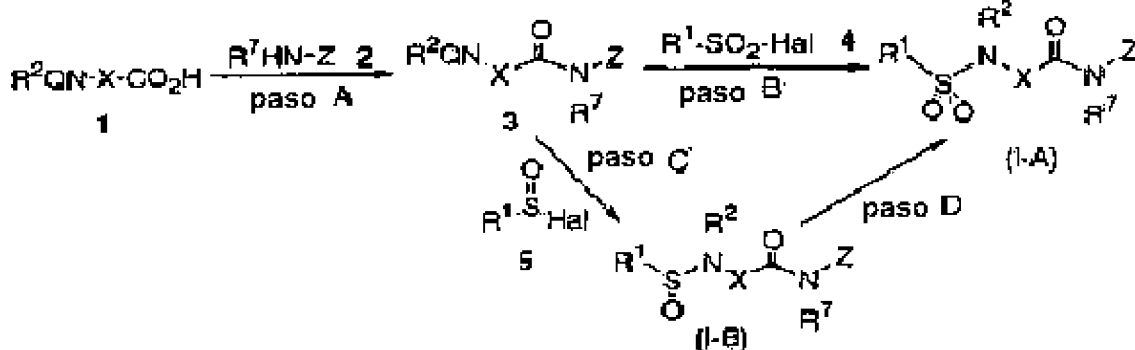
Los compuestos de la presente invención incluyen a sus solvatos. Son preferidos los hidratos y son arbitrarios los números de moléculas de agua que pueden coordinarse con el compuesto de la presente invención.

Si el compuesto (I) de la presente invención tiene un átomo de carbono asimétrico, entonces incluirá a los racematos, a todos los enantiómeros y a todos los estereoisómeros, por ejemplo los diastereoisómeros, los epímeros y los enantiómeros de los mismos.

Si el compuesto (I) de la presente invención tiene uno o más dobles enlaces, entonces formará isómeros E (trans) o Z (cis) y el compuesto (I) incluye a ambos isómeros. Si X es un cicloalquileo, el compuesto (I) incluye tanto al isómero cis como al isómero trans.

Por ejemplo, el compuesto (I) de la presente invención puede sintetizarse con arreglo al siguiente método (esquemas ilustrativos).

(Compuestos en los que Y = CONR⁷)



en el que Hal es halógeno, Q es un grupo protector de amino y los demás símbolos tienen el significado definido anteriormente.

Paso A

Se hace reaccionar el compuesto 1 con el compuesto amino 2 que tiene el sustituyente deseado Z y R⁷, en un disolvente adecuado de 0°C a 50°C durante un período de tiempo, de varios minutos a varias horas. Como disolvente puede utilizarse el tetrahidrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo, agua, las mezclas de los mismos, etc. Si fuera necesario puede utilizarse un activador, por ejemplo el cloruro de tionilo, un haluro de ácido, un anhídrido de ácido o un éster activado.

Paso B

Se desprotege el compuesto 3 por el método habitual y se hace reaccionar con un haluro de sulfonilo 4 que tiene el sustituyente deseado R^1 , en un disolvente adecuado, de 0°C a 50°C , durante un período de tiempo entre varios minutos y varias horas, obteniéndose el compuesto (I-A), en el que n es el número 2. Como disolvente puede utilizarse el tetrahidrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo, agua, o las mezclas de los mismos.

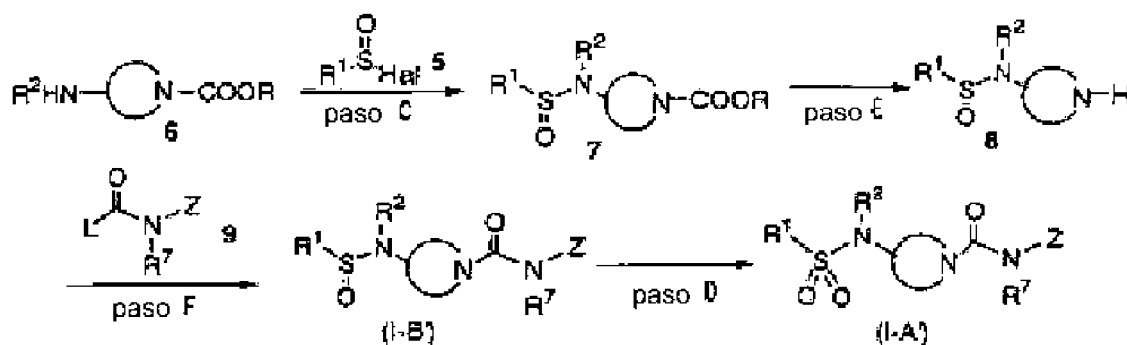
Paso C

Puede sintetizarse el compuesto (I-B), en el que n es el número 1, haciendo reaccionar el compuesto 3 con un haluro de sulfinilo 5 que tenga un sustituyente R^1 . Las condiciones para esta reacción son las mismas que las indicadas antes para el paso B.

Paso D

Se oxida el compuesto (I-B) obtenido en el paso C por el método habitual, obteniéndose el compuesto (I-A), en el que n es el número 2. Como oxidante puede utilizarse el ácido m-cloroperbenzoico, ácido peracético, peróxido de hidrógeno, ácido trifluorperacético, peryodato sódico, hipoclorito sódico, permanganato potásico, etc. y puede llevarse a cabo la reacción entre 0°C y 50°C . Son ejemplos de disolventes el tetrahidrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo, agua, metanol, etanol, isopropanol y las mezclas de los mismos.

En el caso de que X sea heterociclodiilo que contiene por lo menos un átomo de N y el átomo de N está unido a $\text{CONR}^7\text{-Z}$ del compuesto (I), puede efectuarse la siguiente reacción para obtener el compuesto (I-A') o (I-B'). El paso D puede efectuarse inmediatamente después del paso C o del paso E.



en la que R es alquilo inferior o arilo y L es un grupo saliente.

Paso C

Se hace reaccionar el compuesto 5 con el compuesto 6 de manera similar a la descrita en el anterior paso C, obteniéndose el compuesto 7.

Paso E

Se trata el compuesto obtenido 7 con una base en un disolvente adecuado, obteniéndose el compuesto 8. Como base puede utilizarse por ejemplo el hidróxido de bario, hidróxido sódico, hidróxido potásico, hidrazina o propanotiolato de litio. Como disolvente puede utilizarse por ejemplo el tetrahidrofurano, dimetilformamida, dioxano, acetona, acetonitrilo, metanol, etanol, propanol, agua, una mezcla de los mismos u otro disolvente similar. La reacción puede efectuarse entre 0°C y 100°C durante un período de tiempo comprendido entre varios minutos y varias decenas de horas.

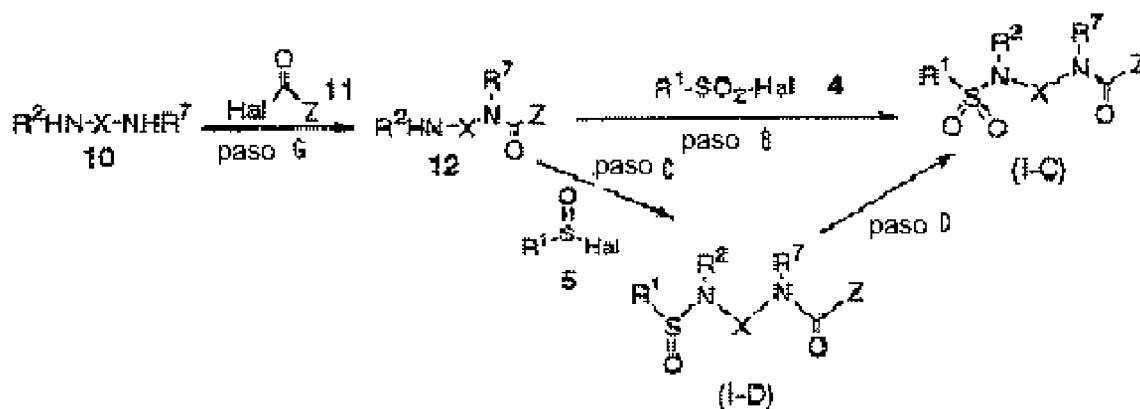
Paso F

Se hace reaccionar el compuesto 8 con el compuesto 9 que tiene un grupo saliente y un sustituyente deseado, en un disolvente adecuado, en presencia o ausencia de una base, entre 0°C y 100°C, durante un período de tiempo comprendido entre varios minutos y varios días, obteniéndose el compuesto (I-B'). Los ejemplos de grupos salientes son fenoxi, cloro y triclorometilo. Los ejemplos de base son la trietilamina, piridina, diisopropiletilamina, hidróxido sódico, carbonato potásico e hidrogenocarbonato sódico. Los ejemplos de disolvente son el tetrahidrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo, metanol, etanol y las mezclas de los mismos.

Paso D

Se hace reaccionar el compuesto (I-B') de manera similar a la descrita en el anterior paso D, obteniéndose el compuesto (I-A').

(Compuestos en el que Y = NR⁷CO)



en el que cada uno de los símbolos tiene el significado definido anteriormente.

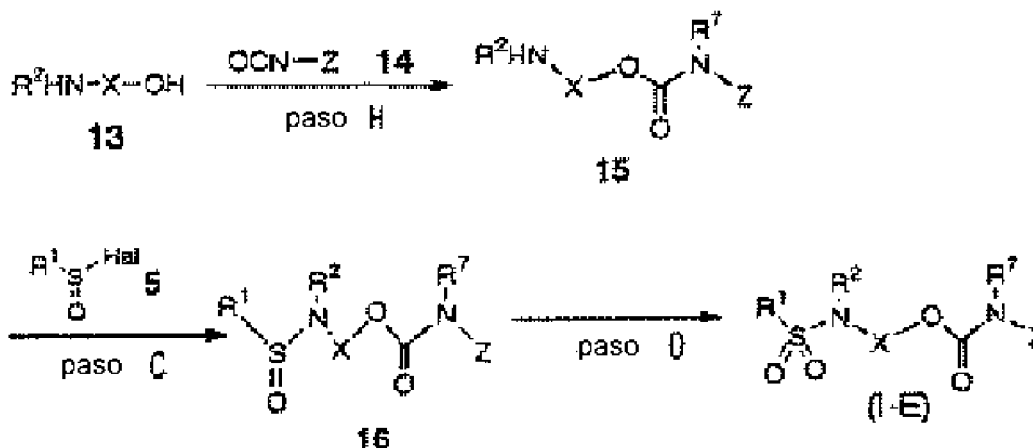
Paso G y paso B

Se hace reaccionar el compuesto 10 con el compuesto 11 en las mismas condiciones de reacción que en el paso B. Se hace reaccionar el compuesto 12 así obtenido de modo similar al descrito en el anterior paso B, obteniéndose el compuesto (I-C), en el que n = 2.

Paso C y Paso D

Para sintetizar el compuesto (I-D), se hace reaccionar el compuesto 12 obtenido en el paso G de manera similar a la descrita en el paso C y el paso D.

(Compuestos en los que Y = OCONR⁷)



en el que cada uno de los símbolos tiene el significado definido anteriormente.

Paso H

Se hace reaccionar el compuesto 13 con el compuesto isocianato 14 que tiene un sustituyente Z, en un disolvente adecuado, en presencia o ausencia de un catalizador idóneo, entre 0°C y 100°C, durante un período de tiempo comprendido entre varios minutos y varios días, obteniéndose el compuesto 15. Los ejemplos de disolvente son el tetrahydrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo y las mezclas de los mismos.

Paso C y paso D

Se hace reaccionar el compuesto así obtenido 15 de manera similar a la descrita en los pasos C y D, obteniéndose el compuesto (I-E) de la presente invención.

(Compuestos, en los que Y = CSNR⁷ o NR⁷CS)

Puede sintetizarse el compuesto (I), en el que Y es CSNR⁷ o NR⁷CS por reacción del compuesto (I), en el que Y es CONR⁷ o NR⁷CO, sintetizado con arreglo a uno cualquiera de los métodos anteriores, con el reactivo de Lawesson o pentasulfuro de fósforo, en un disolvente adecuado, entre 30°C y 100°C, durante un período de tiempo entre varios minutos y varias horas. Los ejemplos de disolvente son el tetrahydrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo y las mezclas de los mismos.

Los grupos amino pueden protegerse con un grupo protector apropiado del modo habitual en un paso oportuno. Como grupos protectores pueden utilizarse, por ejemplo, la ftalimida, (alcoxi inferior)-carbonilo, (alqueniloxi inferior)-carbonilo, halógeno-alcoxicarbonilo, aril-alcoxi (inferior)-carbonilo, trialquilsililo, (alquilo inferior)-sulfonilo, halógeno-(alquilo (inferior))-sulfonilo, arilsulfonilo, (alquilo inferior)-carbonilo y arilcarbonilo.

Después de haber protegido al grupo amino se somete el compuesto a las reacciones antes mencionadas y se desprotege el compuesto obtenido por tratamiento de un ácido o una base, en un disolvente adecuado, en un estadio oportuno. Los ejemplos de disolvente son el tetrahydrofurano, dimetilformamida, éter de dietilo, diclorometano, tolueno, benceno, xileno, ciclohexano, hexano, cloroformo, acetato de etilo, acetato de butilo, pentano, heptano, dioxano, acetona, acetonitrilo y las mezclas de los mismos. Los ejemplos de base son la hidrazina, piridina, hidróxido sódico e hidróxido potásico y los ejemplos de ácidos son el ácido clorhídrico, el ácido trifluoracético y el ácido fluorhídrico.

Todos los compuestos de la presente invención tienen actividad antagonista contra el NPY Y5.

El antagonista de receptor NPY-Y5 de la presente invención es eficaz contra todas las enfermedades, en las que participa el NPY-Y5 y es especialmente útil para prevenir y/o tratar la obesidad y suprimir la ingestión de comida. Además, el antagonista es eficaz para prevenir y/o tratar las enfermedades, en las que la obesidad es un factor de riesgo, por ejemplo, la diabetes, la hipertensión, la hiperlipemia, la aterosclerosis y el síndrome coronario agudo.

Además, el antagonista del receptor NPY-Y5 de la presente invención tiene una afinidad baja con respecto a los receptores NPY-Y1 e Y2 y tiene una selectividad elevada para el receptor NPY-Y5. El NPY produce una acción de vasoconstricción sostenida en la periferia y esta acción se realiza principalmente mediante el receptor Y1. Dado que el receptor Y5 no interviene en esta acción en absoluto, el antagonista del receptor NPY-Y5 conlleva un bajo riesgo de inducir efectos secundarios en la vasoconstricción periférica y se espera que sea convenientemente empleado como medicamento seguro.

El antagonista del receptor NPY-Y5 despliega su efecto anti-obesidad suprimiendo la ingestión de comida. Por consiguiente, una de sus características es que este antagonista no induce efectos secundarios, p. ej., una indigestión provocada por un agente anti-obesidad, que inhiba la digestión y la absorción y un efecto secundario muy importante, por ejemplo la anti-depresión causada por el inhibidor del transportador de serotonina, que presenta un efecto anti-obesidad.

Un compuesto de la presente invención puede administrarse por vía oral o parenteral como agente anti-obesidad o anorético. En el caso de la administración oral, esta podrá realizarse en cualquier forma de presentación, por ejemplo tabletas, gránulos, polvos, cápsulas, píldoras, soluciones, jarabes, tabletas bucales y tabletas sublinguales. Si se administra el compuesto por vía parenteral, entonces es preferida cualquier forma habitual, por ejemplo inyecciones (p. ej. intravenosa o intramuscular), supositorios, agentes intradérmicos y vapores. Es preferida en especial la administración oral porque los compuestos de la presente invención presentan una gran absorbabilidad oral.

Puede fabricarse una composición farmacéutica mezclando una cantidad eficaz de un compuesto de la presente invención con varios aditivos farmacéuticos idóneos para la forma de administración, por ejemplo excipientes, aglutinantes, agentes humectantes, desintegrantes, lubricantes y diluyentes. Cuando la composición es una inyección, el ingrediente activo y el vehículo apropiado pueden esterilizarse para fabricar la composición farmacéutica.

Los ejemplos de excipientes incluyen la lactosa, la sacarosa, la glucosa, el almidón, el carbonato cálcico y la celulosa cristalina. Los ejemplos de aglutinantes incluyen a la metilcelulosa, la carboximetilcelulosa, la hidroxipropilcelulosa, la gelatina y la polivinilpirrolidona. Los ejemplos de desintegrantes incluyen a la carboximetilcelulosa, la carboximetilcelulosa sódica, el almidón, el alginato sódico, el agar y el lauril-sulfato sódico. Los ejemplos de lubricantes incluyen al talco, estearato magnésico y macrogol. Como material base de los supositorios puede emplearse el aceite de cacao, macrogol, metilcelulosa, etc. Si la composición se fabrica en forma de soluciones, inyecciones de emulsión o inyecciones de suspensión, pueden añadirse acelerantes de disolución, agentes de suspensión, emulsionantes, estabilizantes, conservantes, agentes isotónicos y similares. Para la administración oral pueden añadirse edulcorantes, aromas y similares.

Aunque la dosis de un compuesto de la presente invención en su condición de agente anti-obesidad o agente anorético debería determinarse tomando en consideración la edad del paciente, su peso corporal, el tipo y grado de su enfermedad, la vía de administración, etc., la dosis oral habitual para adultos podría situarse entre 0,05 y 100 mg/kg/día y con preferencia entre 0,1 y 10 mg/kg/día. Para la administración parenteral, aunque la dosis varía mucho en función de la vía de administración, la dosis diaria podría situarse entre 0,005 y 10 mg/kg/día, con preferencia entre 0,01 y 1 mg/kg/día. La dosis puede administrarse de una vez o dividirse en varias subdosis al día.

La presente invención se ilustra además mediante los siguientes ejemplos y ensayos.

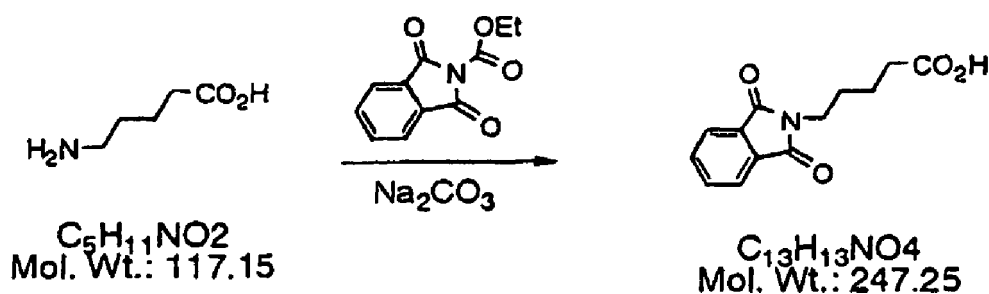
Ejemplos de referencia

(No incluidos en la presente invención, excepto el compuesto Ia-178)

Ejemplo 1

Síntesis del compuesto (I-7)

Paso 1

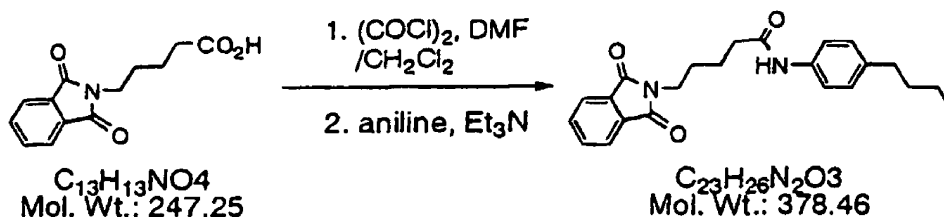


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Se disuelve el carbonato sódico (995 mg, 9,38 mmoles) en 30 ml de agua y se le añaden el material de partida aminoácido (1,0 g, 8,53 mmoles) y la N-carboxiftalimida (2,49 g, 11,4 mmoles). Se agita la mezcla a temperatura ambiente durante una noche. Se ajusta el pH de la mezcla a 1 añadiendo ácido clorhídrico conc. Se lavan los cristales precipitados con agua y se secan, obteniéndose el compuesto deseado (1,72 g, rendimiento = 82%).

RMN- ^1H (CD_3OD) δ ppm = 1,59-1,77 (m, 4H), 2,34 (t, 2H, J = 6,3 Hz), 3,69 (t, 2H, J = 6,6 Hz), 7,78-7,87 (m, 4H).

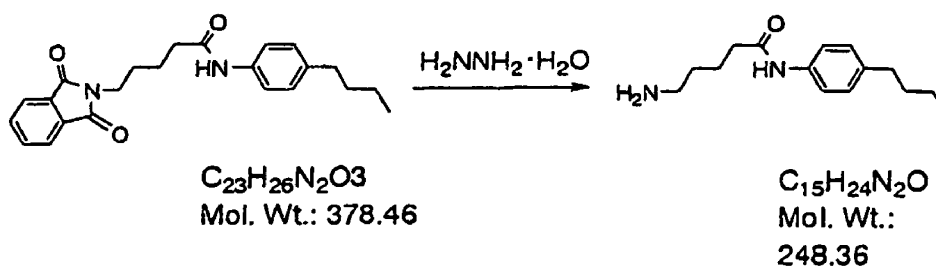
Paso 2



Se disuelve a temperatura ambiente el compuesto obtenido en el paso 1 (1,0 g, 4,0 mmoles) en 5 ml de diclorometano. Se añaden el cloruro de oxalilo (0,459 ml, 5,2 mmoles) y cantidades traza de DMF a la mezcla enfriando con hielo y se hace reaccionar la mezcla enfriando con hielo y a temperatura ambiente, durante 30 min en cada caso. Después de eliminar el disolvente a presión reducida se añaden 5 ml de diclorometano. Enfriando con hielo se añaden la 4-butilanilina (664 mg, 4,4 mmoles) y la trietilamina (0,564 ml, 4,4 mmoles) y se deja reaccionar la mezcla a temperatura ambiente durante 30 min. Se vierte la mezcla reaccionante sobre agua y se extrae con cloroformo. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose el compuesto deseado (1,49 g, rendimiento = 97%).

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,27-1,39 (m, 2H), 1,51-1,62 (m, 2H), 1,72-1,84 (m, 4H), 2,40-2,46 (m, 2H), 2,56 (t, 2H, J = 7,5 Hz), 3,76 (t, 1H, J = 5,7 Hz), 7,12 (d, 2H, J = 7,8 Hz), 7,33 (s, 1H), 7,42 (d, 2H, J = 8,1 Hz), 7,71-7,73 (m, 2H), 7,83-7,86 (m, 2H).

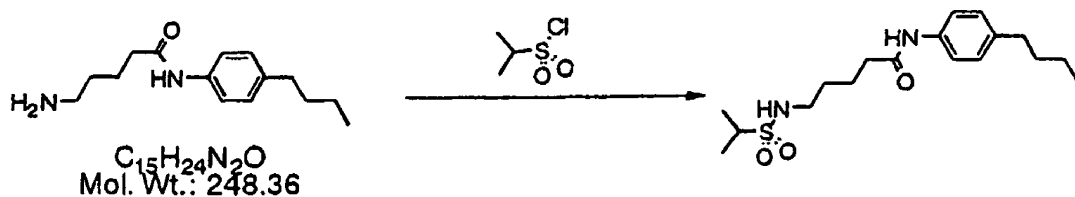
Paso 3



Después de disolver el compuesto obtenido en el paso 2 (1,49 g, 3,9 mmoles) en 30 ml de etanol se añade la hidrazina monohidratada (0,591 mg, 11,8 mmoles) y se deja reaccionar la mezcla a 50°C durante 3 horas. Se elimina el disolvente, se añade 1 mol/l de NaOH acuoso y se extrae la solución con acetato de etilo. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida, obteniéndose el compuesto deseado (808 mg, rendimiento = 83%).

RMN- ^1H (CD_3OD) δ ppm = 0,93 (t, 3H, J = 7,2 Hz), 1,28-1,40 (m, 2H), 1,50-1,62 (m, 4H), 1,67-1,77 (m, 2H), 2,37 (t, 2H, J = 7,5 Hz), 2,56 (t, 2H, J = 7,8 Hz), 2,68 (t, 2H, J = 7,2 Hz), 7,11 (d, 2H, J = 8,1 Hz), 7,42 (d, 2H, J = 8,4 Hz).

Paso 4

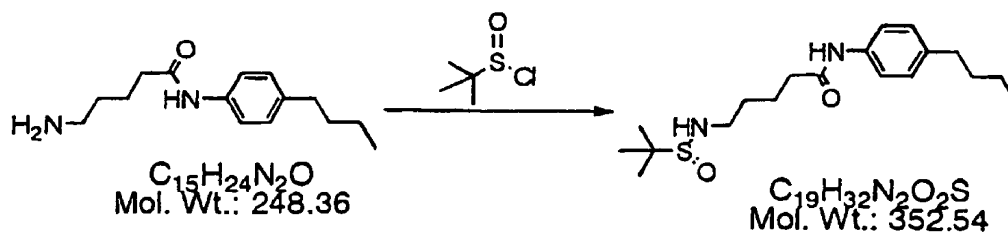


15 Se suspende el compuesto obtenido en el paso 3 (808 mg, 3,25 mmoles) en 5 ml de diclorometano enfriando con hielo y se le añaden el cloruro de isopropilsulfonilo (696 mg, 4,9 mmoles) y trietilamina (494 mg, 4,9 mmoles). Después de que la mezcla haya reaccionado enfriando con hielo durante una hora, se vierte la mezcla reaccionante sobre agua y se extrae con cloroformo. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose el compuesto deseado en un rendimiento cuantitativo.

20 RMN- H^1 ($CDCl_3$) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,27-1,40 (m, 2H), 1,36 (d, 6H, J = 6,6 Hz), 1,51-1,69 (m, 4H), 1,77-1,86 (m, 2H), 2,38 (t, 2H, J = 7,2 Hz), 2,56 (t, 2H, J = 7,5 Hz), 3,12-3,21 (m, 3H), 4,38 (t, 1H, J = 5,7 Hz), 7,11 (d, 2H, J = 8,4 Hz), 7,36-7,41 (m, 3H).

Ejemplo 2

Síntesis del compuesto (I-10)

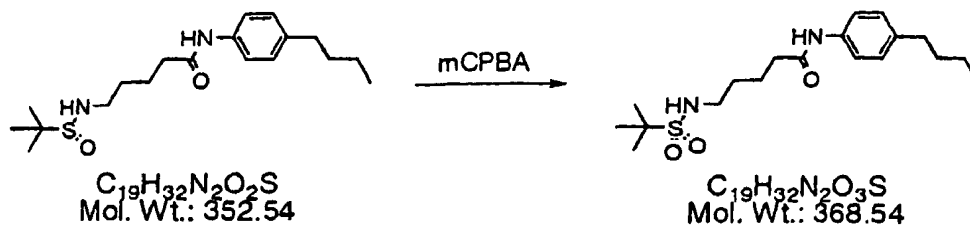


40 Se sintetiza el compuesto deseado de modo similar al paso 4 del ejemplo 1, excepto que se añaden el cloruro de tert-butilsulfonilo (689 mg, 4,9 mmoles) y la trietilamina (494 mg, 4,9 mmoles) al compuesto obtenido en el paso 3 del ejemplo 1.

45 RMN- H^1 ($CDCl_3$) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,22 (s, 9H), 1,30-1,37 (m, 2H), 1,51-1,68 (m, 4H), 1,76-1,86 (m, 2H), 2,31-2,40 (m, 2H), 2,56 (t, 2H, J = 7,5 Hz), 3,15-3,26 (m, 3H), 7,11 (t, 2H, J = 8,7 Hz), 7,42 (d, 2H, J = 8,1 Hz), 7,54 (s, 1H).

Ejemplo 3

Síntesis del compuesto (I-11)



65 Se disuelve el compuesto obtenido en el ejemplo 2 (352 mg, 1,0 mmoles) en 5 ml de diclorometano enfriando con hielo y se añade a la solución el mCPBA (259 mg, 1,5 mmoles). Se deja reaccionar la solución a temperatura ambiente durante una hora y se filtra el material insoluble. Se lava sucesivamente el líquido filtrado con 1 mol/l de NaOH, $Na_2S_2O_5$ y agua, y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose el compuesto deseado (338 mg, rendimiento = 92%).

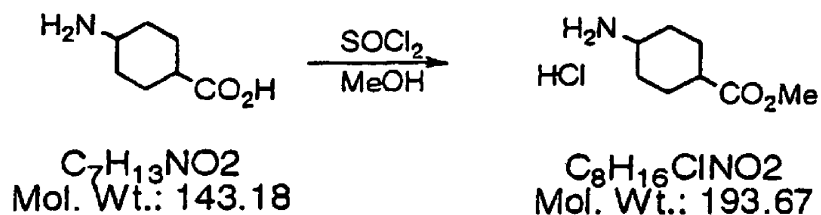
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RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, $J = 7,5$ Hz), 1,29-1,39 (m, 2H), 1,39 (s, 9H), 1,51-1,68 (m, 4H), 1,76-1,84 (m, 2H), 2,37 (t, 2H, $J = 7,5$ Hz), 2,56 (t, 2H, $J = 7,8$ Hz), 3,19-3,26 (m, 2H), 4,20 (t, 1H, $J = 5,7$ Hz), 7,11 (t, 2H, $J = 8,1$ Hz), 7,42 (d, 2H, $J = 8,7$ Hz), 7,46 (s, 1H).

Ejemplo 4

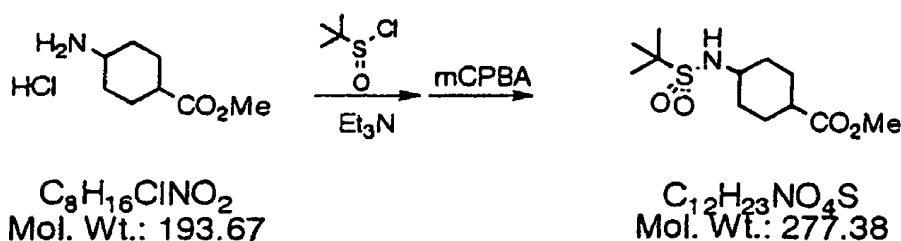
Síntesis del compuesto (I-72)

Paso 1



Se disuelve el material de partida aminoácido (una mezcla de los isómeros cis y trans) (1,0 g, 8,53 mmoles) en 7,5 ml de metanol. Se añade el cloruro de tionilo (1,0 ml, 13,7 mmoles) a la mezcla enfriando con hielo y se agita la mezcla a temperatura ambiente durante una noche. Se concentra la mezcla a presión reducida, se le añade éter de dietilo y se filtran los cristales precipitados. Se lavan los cristales con éter de dietilo y se secan, obteniéndose el compuesto deseado (1,25 g, rendimiento = 93%). RMN- ^1H (CDCl_3) δ ppm = 1,50-2,60 (m, 9H), 3,08-3,36 (m, 1H), 3,67 (s, 3H, CO_2Me del isómero cis), 3,71 (s, 3H, CO_2Me del isómero trans), 8,15-8,55 (m, 3H).

Paso 2

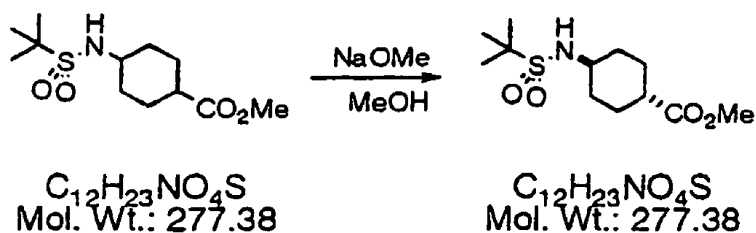


Se sintetiza la sulfonamida deseada (una mezcla de los isómeros cis y trans) a partir del material éster de metilo de manera similar a la descrita en los pasos 3 del ejemplo 1 y ejemplo 2.

Isómero cis:

RMN- ^1H (CDCl_3) δ ppm = 1,39 (s, 9H), 1,52-1,99 (m, 8H), 2,43-2,53 (m, 1H), 3,42-3,55 (m, 1H), 3,69 (s, 3H), 3,85 (d, 1H, $J = 9,0$ Hz).

Paso 3



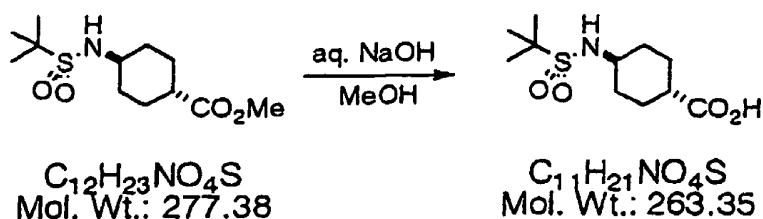
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Se disuelve el material de partida sulfonamida (19,4 g, 70,0 mmoles, una mezcla de los isómeros cis y trans) en 30 ml de metanol. A esta la mezcla se le añade metóxido sódico del 28% (284 ml, 140,0 mmoles) y se mantiene en agitación a reflujo, después se enfría con hielo. Después de eliminar el disolvente, se diluye el residuo con cloroformo y se le añade 1 mol/l de HCl con agitación enfriando con hielo, hasta que el pH de la fase acuosa se sitúa en 3. Se extrae la fase acuosa con cloroformo, se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Los cristales en bruto obtenidos se recrystalizan en hexano-acetato de etilo, obteniéndose la sulfonamida deseada (isómero trans, 7,75 g, rendimiento = 40%).

Isómero trans:

RMN- ^1H (CD_3OD) δ ppm = 1,16-1,32 (m, 2H), 1,39 (s, 9H), 1,44-1,52 (m, 2H), 1,98-2,09 (m, 2H), 2,14-2,29 (m, 3H), 3,18-3,37 (m, 1H), 3,63 (d, 1H, $J = 9,0$ Hz), 3,67 (s, 3H).

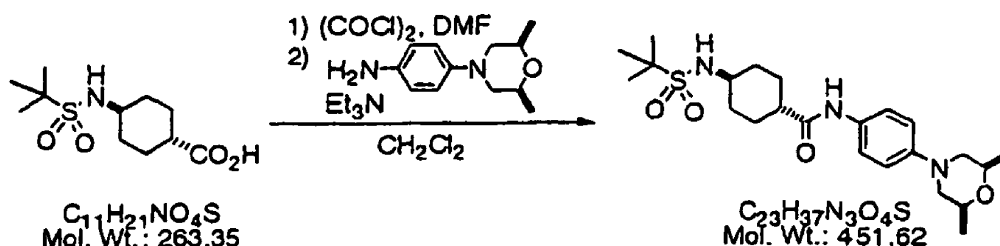
Paso 4



Se disuelve el material de partida éster de metilo (4,77 g, 17,2 mmoles) en 95 ml de metanol y se le añade 1 mol/l de NaOH (43 ml, 43,0 mmoles) con agitación y enfriando con hielo. Se agita la mezcla a temperatura ambiente durante una noche y se concentra a presión reducida. Después se añade 1 mol/l de HCl con agitación hasta que el pH de la mezcla se sitúa en 3, enfriando con hielo, se recogen por filtración los cristales precipitados, se lavan con agua y se secan. Los cristales en bruto obtenidos se recrystalizan en hexano-acetato de etilo, obteniéndose el ácido carboxílico deseado (4,20 g, rendimiento = 93%).

RMN- ^1H (CDCl_3) δ ppm = 1,18-1,35 (m, 2H), 1,39 (s, 9H), 1,46-1,63 (m, 2H), 2,01-2,14 (m, 2H), 2,14-2,32 (m, 3H), 3,18-3,35 (m, 1H), 3,80 (d, 1H, $J = 9,6$ Hz).

Paso 5



Se disuelve el material de partida ácido carboxílico (5,86 g, 22,3 mmoles) en 88 ml de diclorometano a temperatura ambiente. A la mezcla se le añade el cloruro de oxalilo (2,34 ml, 26,7 mmoles) y una cantidad catalítica de DMF, enfriando con hielo y se agita a temperatura ambiente durante una hora. Después de eliminar el disolvente a presión reducida, se añaden el diclorometano (115 ml), anilina sustituida (5,05 g, 24,5 mmoles) y trietilamina (4,65 ml, 33,4 mmoles). Se agita la mezcla a temperatura ambiente durante 2,5 horas, enfriando con hielo se le añade agua y se extrae la mezcla con cloroformo. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se añaden acetato de etilo y hexano al residuo. Se recogen por filtración los cristales precipitados, obteniéndose la amida deseada (7,00 g, rendimiento = 70%).

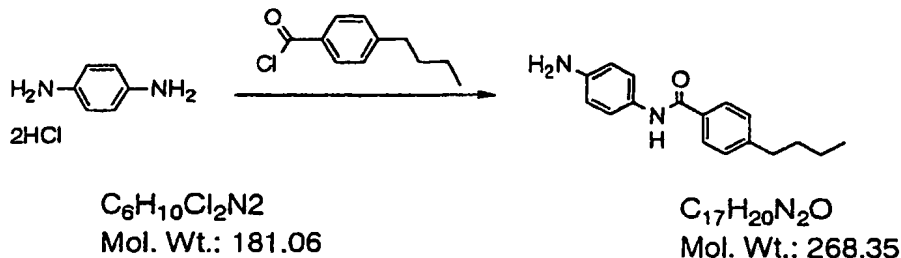
RMN- ^1H (CDCl_3) δ ppm = 1,25 (d, 6H, $J = 6,3$ Hz), 1,17-1,42 (m, 2H), 1,40 (s, 9H), 1,60-1,78 (m, 2H), 1,98-2,43 (m, 7H), 3,20-3,43 (m, 3H), 3,67 (d, 1H, $J = 9,6$ Hz), 3,74-3,86 (m, 2H), 6,86 (d, 2H, $J = 9,0$ Hz), 7,04 (s, 1H), 7,38 (d, 2H, $J = 9,0$ Hz).

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Ejemplo 5

Síntesis del compuesto (I-2)

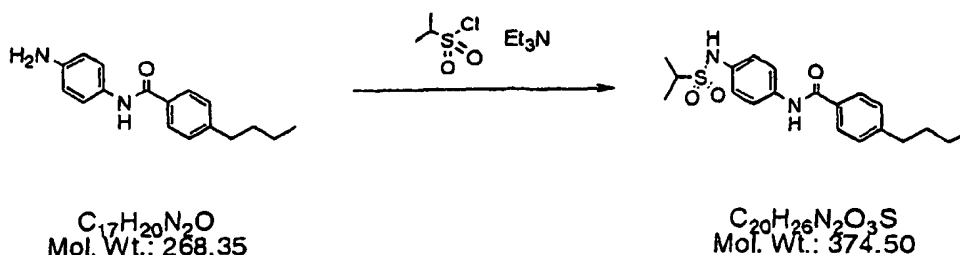
Paso 1



Se suspende el material de partida diamina (461 mg, 2,5 mmoles) en diclorometano enfriando con hielo, se le añaden un cloruro de ácido (500 mg, 2,5 mmoles) y trietilamina (773 mg, 7,5 mmoles) y se deja reaccionar la mezcla durante 30 min. Se añaden agua y diclorometano a la mezcla reaccionante y se filtra el material insoluble. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida, obteniéndose el compuesto deseado en forma de residuo (100 mg, rendimiento = 15%).

RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,2 Hz), 1,30-1,42 (m, 2H), 1,57-1,67 (m, 2H), 2,66 (t, 2H, J = 7,8 Hz), 3,50 (ancha s, 1H), 6,57 (s, 1H), 6,68 (d, 2H, J = 8,7 Hz), 7,26 (d, 2H, J = 8,4 Hz), 7,39 (d, 2H, J = 8,7 Hz), 7,68 (s, 1H), 7,75 (d, 2H, J = 8,1 Hz).

Paso 2



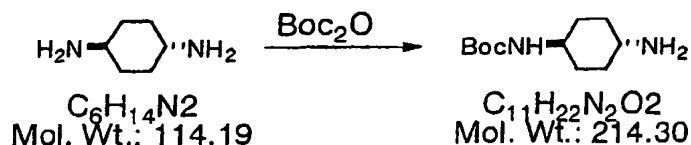
Se sintetiza el compuesto deseado de modo similar al paso 4 del ejemplo 1.

RMN- ^1H (CDCl_3) δ ppm = 0,94 (t, 3H, J = 7,5 Hz), 1,34-1,44 (m, 2H), 1,40 (d, 6H, J = 6,6 Hz), 1,59-1,68 (m, 2H), 2,69 (t, 2H, J = 7,8 Hz), 3,24-3,35 (m, 1H), 6,49 (s, 1H), 7,23-7,32 (m, 4H), 7,6 (d, 2H, J = 8,7 Hz), 7,79 (d, 2H, J = 8,1 Hz), 7,85 (s, 1H).

Ejemplo 6

Síntesis del compuesto (I-31)

Paso 1



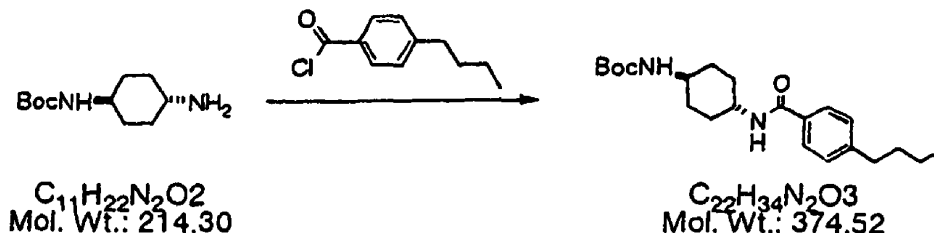
Se disuelve el material de partida diamina (8,37 g, 73,3 mmoles) en 30 ml de dioxano a temperatura ambiente y se le añade una solución de Boc_2O (2 g, 9,2 mmoles) en dioxano (30 ml). Se deja reaccionar la mezcla a temperatura ambiente durante 3 días y se elimina el disolvente. Se añade agua al residuo y se extrae la mezcla con cloroformo. Se

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lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida, obteniéndose el compuesto deseado en forma de residuo (1,8 g, rendimiento basado en el Boc_2O = 92%).

RMN- ^1H (CDCl_3) δ ppm = 1,07-1,26 (m, 6H), 1,44 (s, 9H), 1,84-2,00 (m, 4H), 2,58-2,67 (m, 1H), 3,37 (ancha s, 1H), 4,43 (ancha s, 1H).

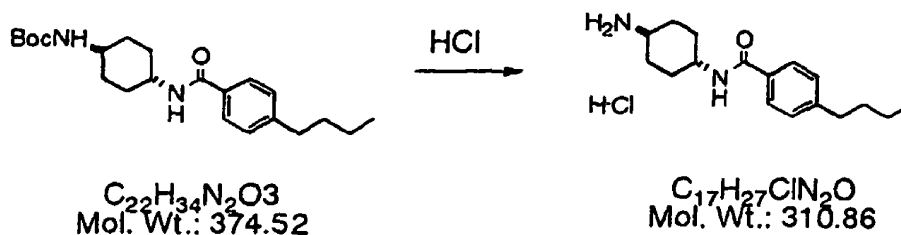
Paso 2



Se sintetiza el compuesto deseado de modo similar al paso 1 del ejemplo 5.

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,26-1,42 (m, 6H), 1,45 (s, 9H), 1,54-1,68 (m, 2H), 1,99-2,12 (m, 4H), 2,64 (t, 2H, J = 7,8 Hz), 3,43 (ancha s, 1H), 3,90-4,00 (m, 1H), 4,48 (d, 1H, J = 5,7 Hz), 5,95 (d, 1H, J = 8,4 Hz), 7,21 (d, 2H, J = 8,4 Hz), 7,65 (d, 2H, J = 8,4 Hz).

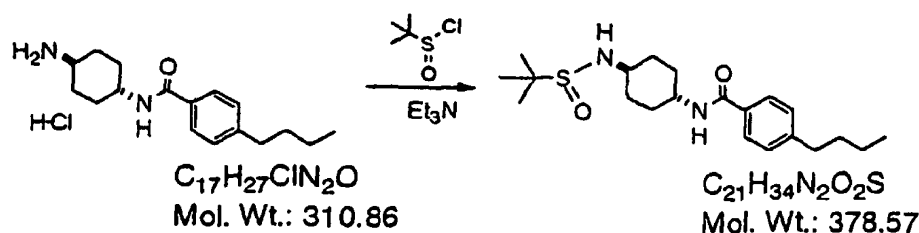
Paso 3



Se disuelve el material de partida, el compuesto Boc (2,08 g, 5,55 mmoles), en 20 ml de acetato de etilo enfriando con hielo y se le añaden 20 ml de 4 mol/l de HCl/AcOEt . Se deja reaccionar la mezcla a temperatura ambiente durante una hora y se elimina el disolvente a presión reducida, obteniéndose el compuesto deseado en forma de residuo (1,7 g, rendimiento = 98%).

RMN- ^1H (CD_3OD) δ ppm = 0,93 (t, 3H, J = 7,2 Hz), 1,29-1,41 (m, 2H), 1,50-1,66 (m, 6H), 2,02-2,18 (m, 4H), 2,66 (t, 2H, J = 7,8 Hz), 3,13 (ancha s, 1H), 3,82-3,94 (m, 1H), 7,26 (d, 2H, J = 8,7 Hz), 7,72 (d, 2H, J = 8,4 Hz).

Paso 4



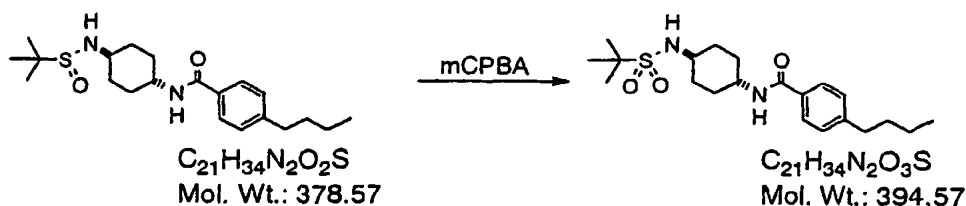
Se sintetiza el compuesto deseado de modo similar al paso 4 del ejemplo 1.

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,5 Hz), 1,21 (s, 9H), 1,28-1,62 (m, 8H), 2,07-2,14 (m, 4H), 2,64 (t, 2H, J = 7,8 Hz), 3,11 (d, 1H, J = 5,1 Hz), 3,20 (ancha s, 1H), 3,90-4,04 (m, 1H), 6,06-6,14 (m, 1H), 7,21 (t, 2H, J = 8,1 Hz), 7,67 (t, 2H, J = 8,4 Hz).

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Ejemplo 7

Síntesis del compuesto (I-32)



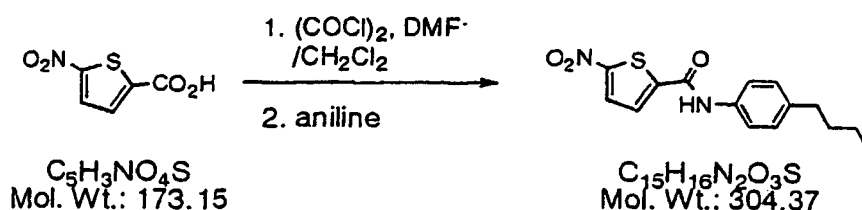
Se sintetiza el compuesto deseado a partir del compuesto obtenido en el ejemplo 6 de manera similar al ejemplo 3.

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,27-1,65 (m, 8H), 1,40 (s, 9H), 2,10-2,23 (m, 4H), 2,65 (t, 2H, J = 7,5 Hz), 3,23-3,35 (m, 1H), 3,49 (s, 1H), 3,88-4,02 (m, 1H), 5,84-5,92 (m, 1H), 7,13 (t, 2H, J = 8,4 Hz), 7,65 (d, 2H, J = 8,1 Hz).

Ejemplo 8

Síntesis del compuesto (I-5)

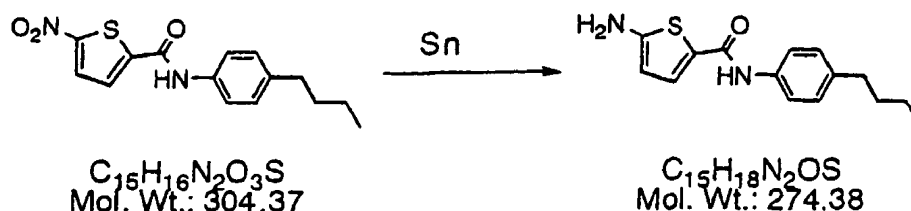
Paso 1



Se sintetiza el compuesto deseado de modo similar al paso 2 del ejemplo 1.

RMN- ^1H (CDCl_3) δ ppm = 0,94 (t, 3H, J = 7,5 Hz), 1,30-1,42 (m, 2H), 1,50-1,65 (m, 2H), 2,61 (t, 2H, J = 7,8 Hz), 7,20 (d, 2H, J = 7,2 Hz), 7,48-7,51 (m, 3H), 7,72 (s, 1H), 7,88-7,90 (m, 1H).

Paso 2

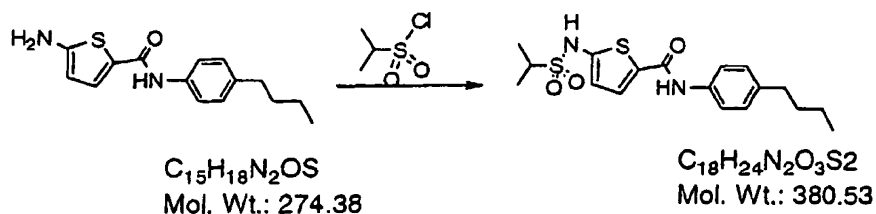


A una mezcla del material de partida, el compuesto nitró (593 mg, 1,95 mmoles) y estaño (358 mg, 3,0 mmoles), se le añaden 30 ml de HCl 6 mol/l y 6 ml de THF y se dejan reaccionar a 50°C durante 3 horas. Después de enfriar, se elimina el disolvente y se neutraliza el residuo con NaOH del 10% y se extrae con cloroformo. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose el compuesto deseado (110 mg, rendimiento = 21%).

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,26-1,39 (m, 2H), 1,49-1,59 (m, 2H), 2,50 (t, 2H, J = 7,8 Hz), 4,37 (s, 1H), 6,65 (d, 2H, J = 8,4 Hz), 6,97 (d, 2H, J = 8,4 Hz), 7,14 (d, 1H, J = 8,4 Hz), 7,43 (d, 1H, J = 8,7 Hz).

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Paso 3



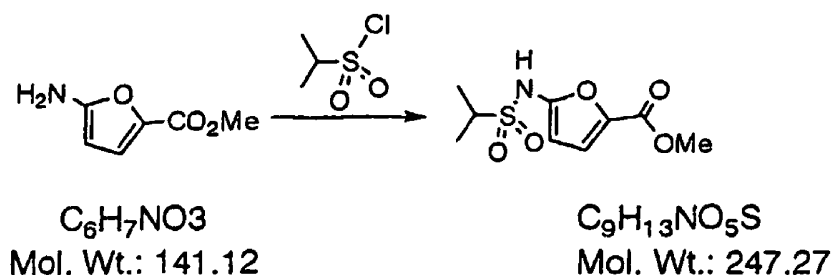
Se sintetiza el compuesto deseado de modo similar al paso 4 del ejemplo 1.

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,28-1,41 (m, 2H), 1,46 (d, 6H, J = 6,9 Hz), 1,53-1,63 (m, 2H), 2,59 (t, 2H, J = 7,8 Hz), 3,35-3,44 (m, 1H), 7,15 (d, 2H, J = 8,7 Hz), 7,38 (s, 1H), 7,45 (d, 2H, J = 8,7 Hz), 7,57 (s, 1H).

Ejemplo 9

Síntesis del compuesto (I-4)

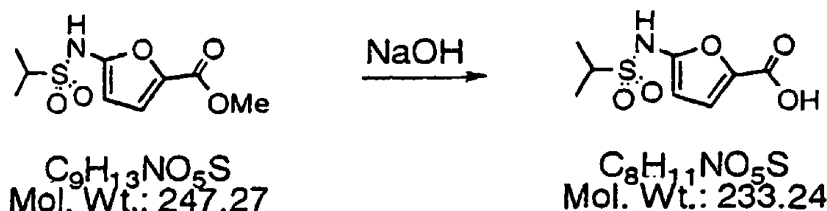
Paso 1



Se sintetiza el compuesto deseado de modo similar al paso 4 del ejemplo 1.

RMN- ^1H (CDCl_3) δ ppm = 1,44 (d, 6H, J = 6,9 Hz), 3,33-3,43 (m, 1H), 3,88 (s, 9H), 6,24-6,26 (m, 1H), 7,11-7,14 (m, 2H).

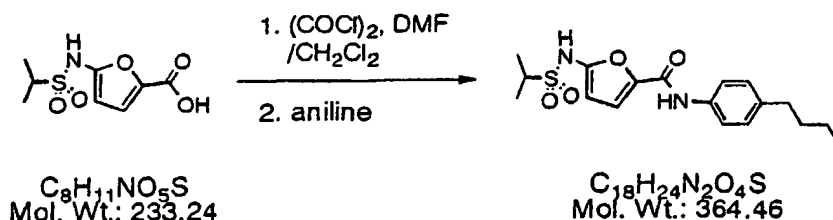
Paso 2



Se sintetiza el compuesto deseado de modo similar al paso 4 del ejemplo 4.

RMN- ^1H (CDCl_3) δ ppm = 1,44 (d, 6H, J = 6,3 Hz), 3,33-3,45 (m, 1H), 6,25-6,28 (m, 1H), 7,27-7,28 (m, 1H), 7,51 (s, 1H).

Paso 3



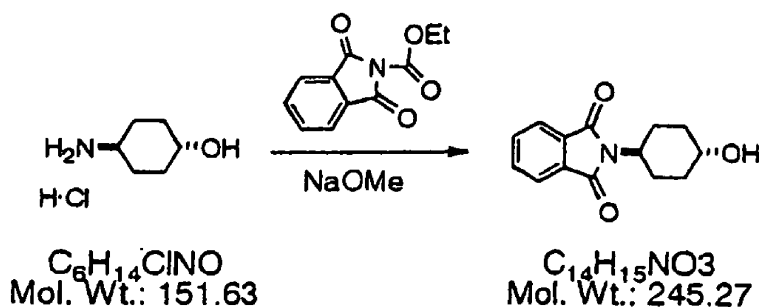
Se sintetiza el compuesto deseado de modo similar al paso 2 del ejemplo 1.

15 RMN- H^1 (CD_3OD) δ ppm = 0,92 (t, 3H, J = 6,9 Hz), 1,28-1,41 (m, 2H), 1,46 (d, 6H, J = 6,3 Hz), 1,53-1,63 (m, 2H), 2,58 (t, 2H, J = 7,8 Hz), 3,33-3,43 (m, 1H), 6,27-6,29 (m, 1H), 7,14-7,16 (m, 3H), 7,50 (d, 2H, J = 8,4 Hz), 7,90 (s, 1H).

Ejemplo 10

Síntesis del compuesto (I-28)

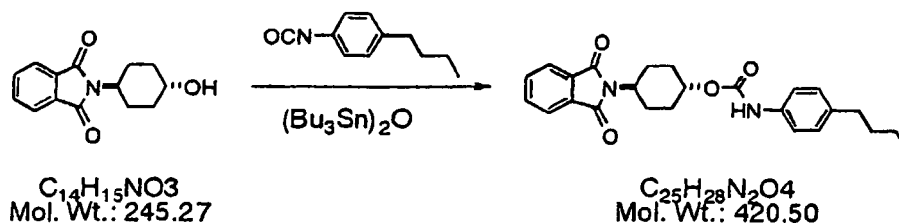
Paso 1



40 Se sintetiza el compuesto deseado de modo similar al paso 1 del ejemplo 1.

RMN- H^1 ($CDCl_3$) δ ppm = 1,37-1,52 (m, 3H), 1,74-1,79 (m, 2H), 2,07-2,13 (m, 2H), 2,28-2,42 (m, 2H), 3,72-3,81 (m, 1H), 4,09-4,20 (m, 1H), 7,68-7,73 (m, 2H), 7,81-7,85 (m, 2H).

Paso 2

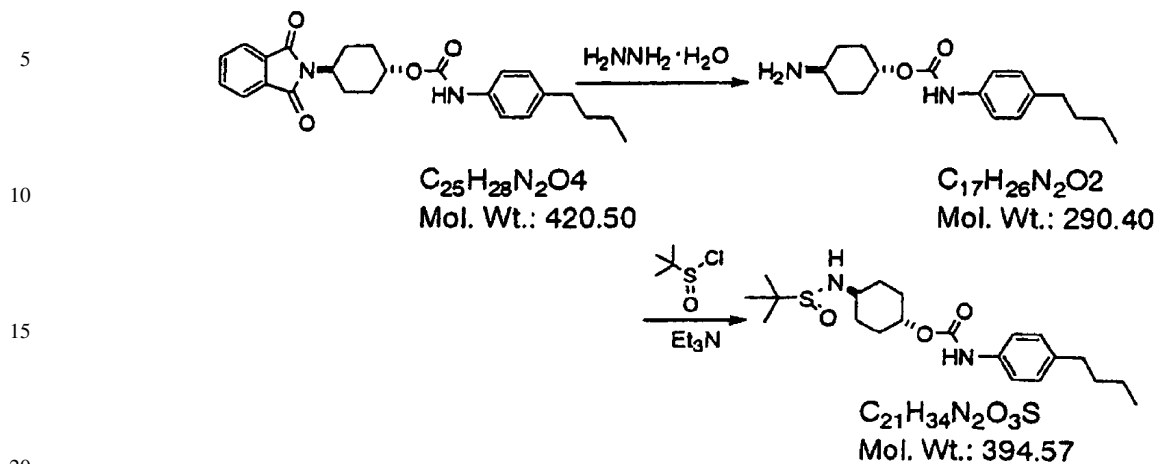


Se disuelve el isocianato de 4-butilfenilo (2,85 g, 16,3 mmoles) en 30 ml de THF y se le añaden el material de partida alcohol (1,0 g, 4,08 mmoles) y óxido bis(tributil-estaño) (972 mg, 1,63 mmoles). Se agita la mezcla durante una noche, se elimina el disolvente, se le añade agua y se extrae la solución con cloroformo. Se lava la fase orgánica con agua y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose el compuesto deseado (332 mg, rendimiento = 19%).

65 RMN- H^1 ($CDCl_3$) δ ppm = 0,92 (t, 3H, J = 6,9 Hz), 1,30-1,40 (m, 2H), 1,48-1,62 (m, 4H), 1,79-1,83 (m, 2H), 2,21-2,25 (m, 2H), 2,37-2,50 (m, 2H), 2,57 (t, 2H, J = 7,8 Hz), 4,11-4,22 (m, 1H), 4,77-4,87 (m, 1H), 6,49 (s, 1H), 7,11 (d, 2H, J = 8,7 Hz), 7,28 (d, 2H, J = 8,7 Hz), 7,69-7,73 (m, 2H), 7,80-7,84 (m, 2H).

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Paso 3

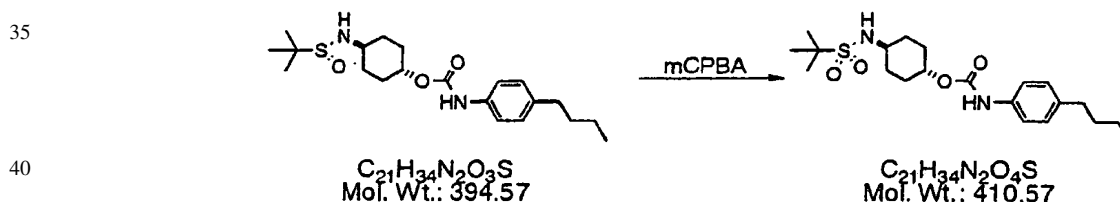


Se sintetiza el compuesto deseado de manera similar al paso 3 del ejemplo 1 y ejemplo 2.

25 RMN- H^1 ($CDCl_3$) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,21 (s, 9H), 1,30-1,62 (m, 8H), 2,08 (d, 4H, J = 11,1 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,04 (d, 1H, J = 4,8 Hz), 3,20-3,30 (m, 1H), 4,65-4,76 (m, 1H), 6,57 (s, 1H), 7,10 (d, 2H, J = 8,7 Hz), 7,26 (d, 2H, J = 8,1 Hz).

Ejemplo 11

Síntesis del compuesto (I-29)

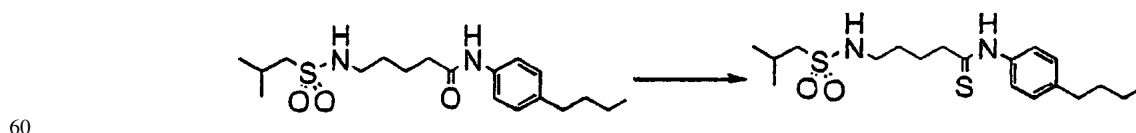


Se sintetiza el compuesto deseado de modo similar al ejemplo 3.

45 RMN- H^1 ($CDCl_3$) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,23-1,62 (m, 8H), 1,40 (s, 9H), 2,12 (d, 4H, J = 14,4 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,28-3,40 (m, 1H), 3,90 (s, 1H), 4,60-4,73 (m, 1H), 6,57 (s, 1H), 7,10 (d, 2H, J = 8,4 Hz), 7,25 (d, 2H, J = 8,4 Hz).

Ejemplo 12

Síntesis del compuesto (I-114)

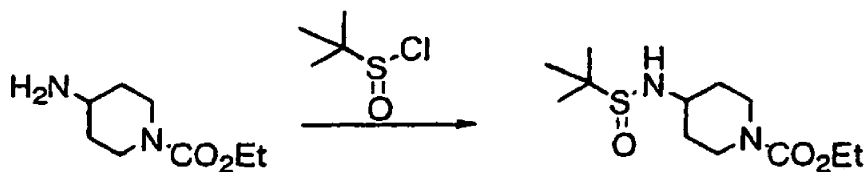


65 Se añade el reactivo de Lawesson [1,3-ditio-2,4-difosfetano-2,4-disulfuro de 2,4-bis(4-metoxifenilo)] (132 mg) a una solución de 100 mg del compuesto (I-110) sintetizado de manera similar al ejemplo 1 en tolueno (2,7 ml) y se agita la mezcla a 80°C durante 3 horas. Se concentra la mezcla reaccionante a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice (acetato de etilo: n-hexano = 1:1), obteniéndose cristales amarillos pálidos (82,3 mg, 79%). Se recrystalizan estos cristales en cloruro de metileno-éter de diisopropilo, obteniéndose el compuesto deseado en forma de agujas incoloras (50,5 mg, 48%).

Ejemplo 13

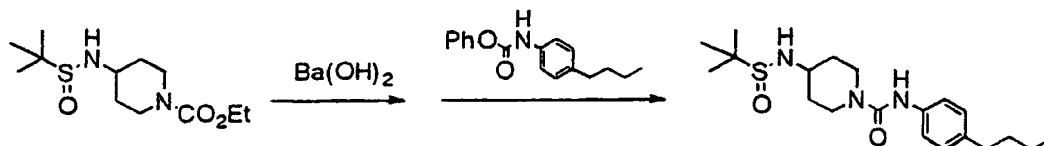
Síntesis del compuesto (I-120)

Paso 1



Se disuelve el 4-amino-1-piperidinacarboxilato de etilo (300 mg) y trietilamina (258 mg) en 5 ml de diclorometano. A esta mezcla se le añaden 2 ml de solución de cloruro de t-butilsulfinilo (222 mg) en diclorometano y se agita la mezcla a temperatura ambiente durante 4 horas. Se reparte la solución entre una solución acuosa de hidrogenosulfato potásico y acetato de etilo. Se lava la fase orgánica con salmuera y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose 378 mg de la 4-t-butilsulfinilamino-1-etoxicarbonil-piperidina.

Paso 2



En una mezcla de 5 ml de 2-propanol y 5 ml de agua se suspenden 378 mg de la 4-t-butilsulfinilamino-1-etoxicarbonil-piperidina y se les añaden 1,77 g de hidróxido de bario. Se mantiene la mezcla en ebullición a reflujo calentándola durante 4 horas. Se diluye la mezcla con metanol y se filtra el material insoluble. Se elimina el disolvente a presión reducida, obteniéndose la 4-t-butilsulfinilaminopiperidina. Sin purificación, se disuelve el material obtenido en 5 ml de THF y se le añaden 984 mg de N-fenoxycarbonil-4-butil-anilina y 236 mg de diisopropil-etilamina, después se agita la mezcla a temperatura ambiente durante una noche. Se añade una solución acuosa de hidrogenosulfato potásico a la mezcla y se extrae la mezcla con acetato de etilo. Se lava la fase orgánica con salmuera y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose 291 mg de la (4-t-butilfenil)amida del ácido 4-t-butilsulfinilaminopiperidina-1-carboxílico.

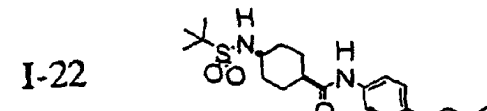
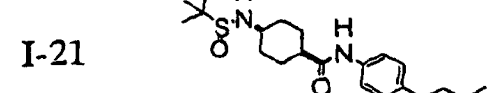
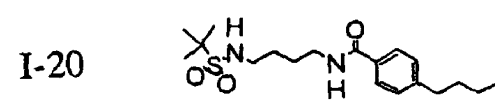
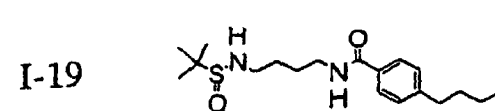
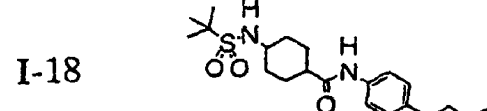
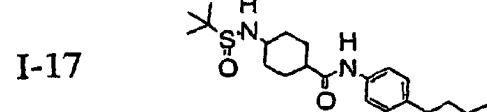
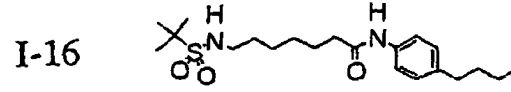
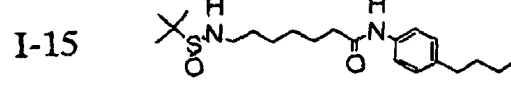
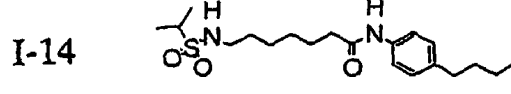
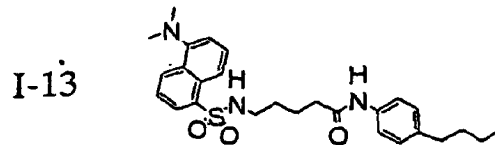
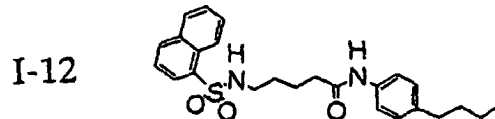
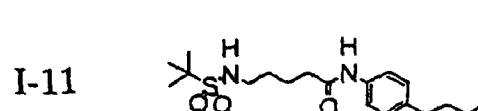
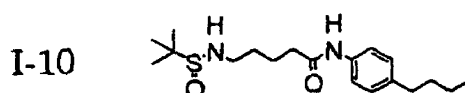
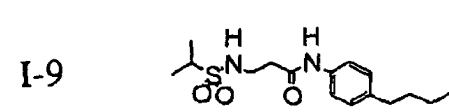
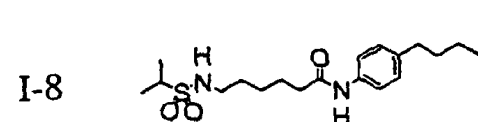
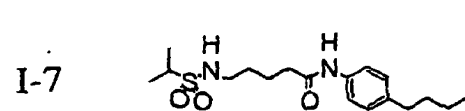
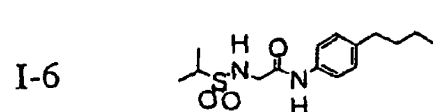
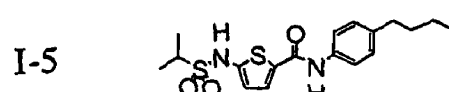
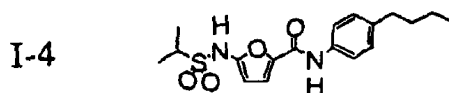
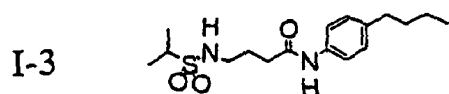
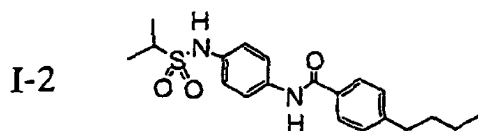
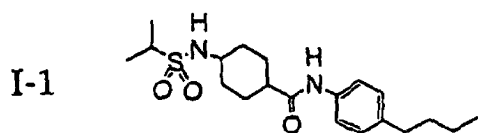
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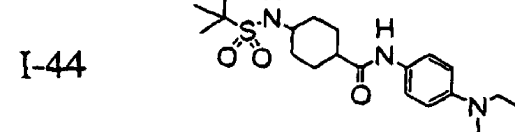
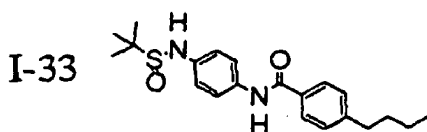
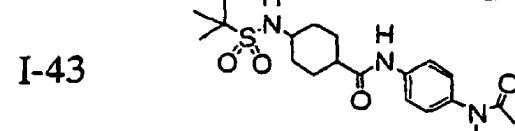
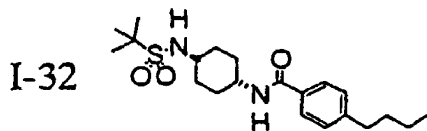
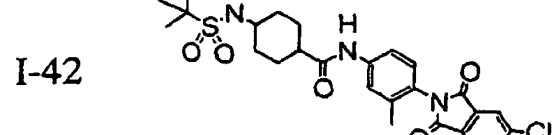
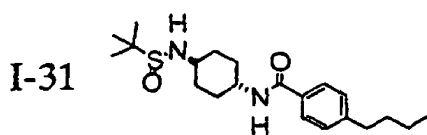
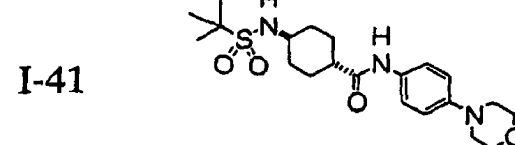
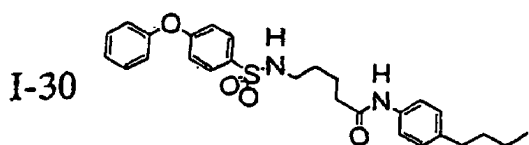
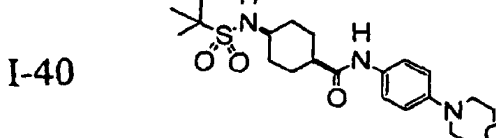
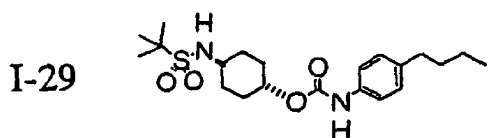
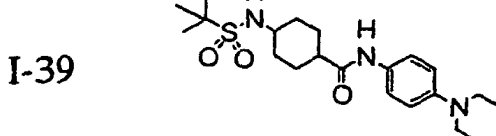
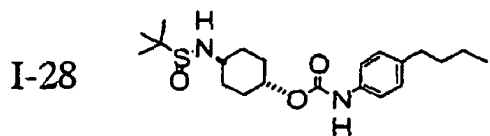
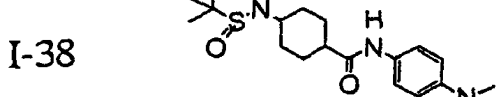
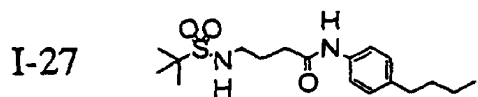
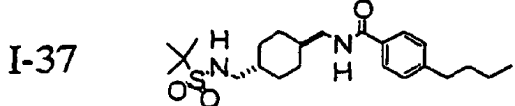
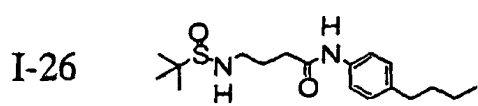
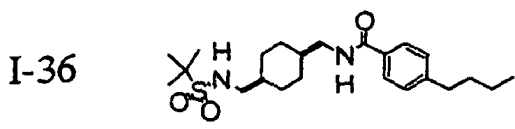
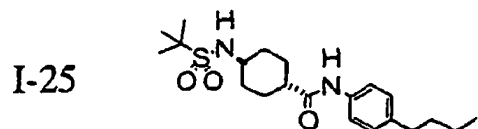
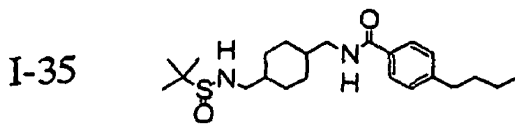
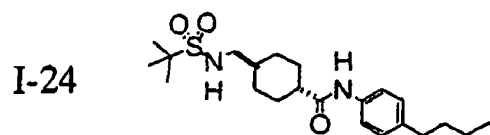
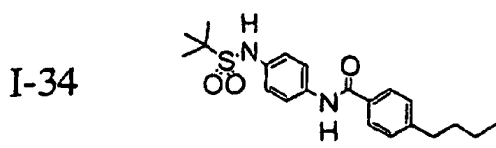
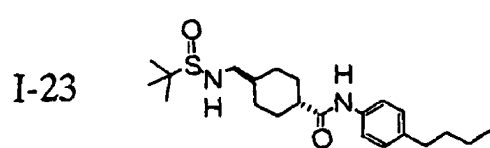
Paso 3

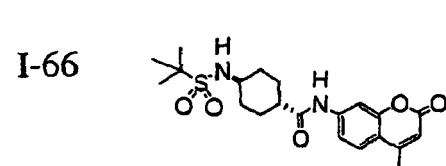
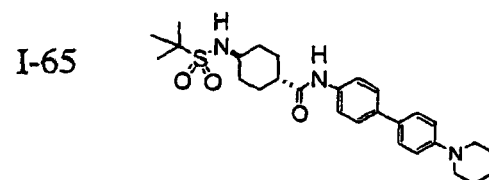
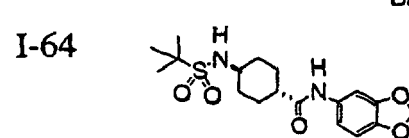
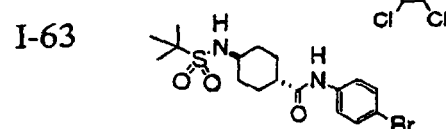
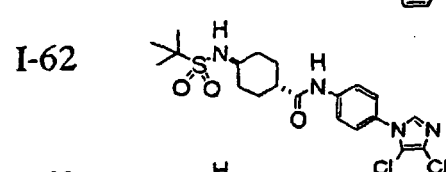
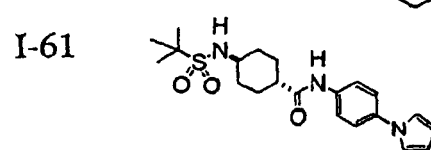
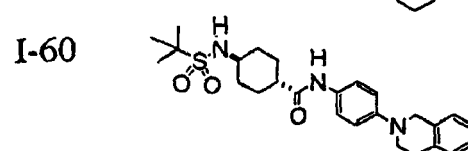
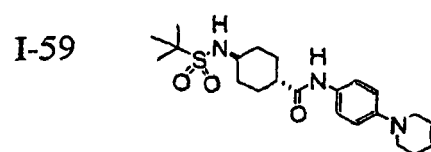
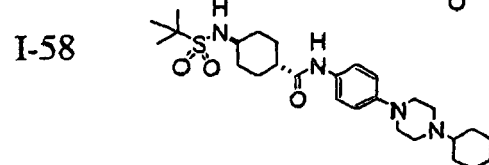
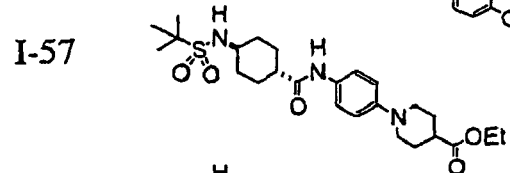
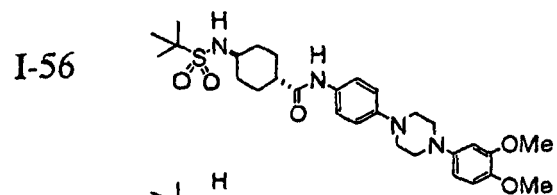
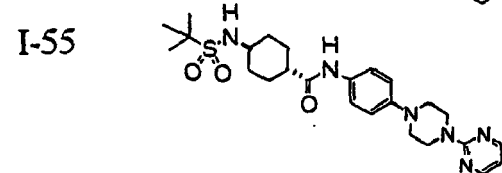
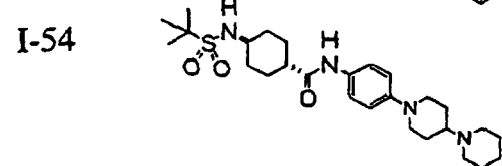
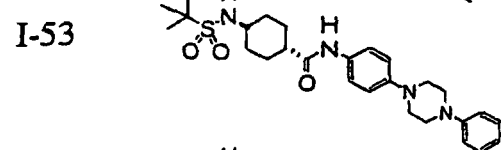
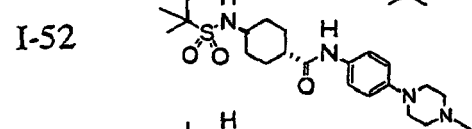
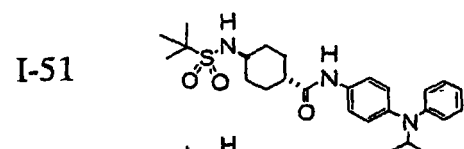
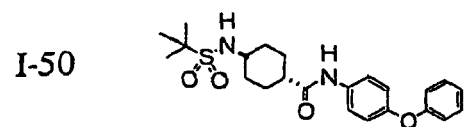
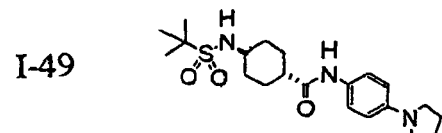
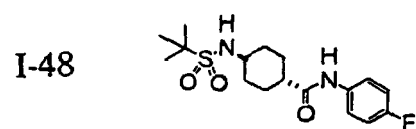
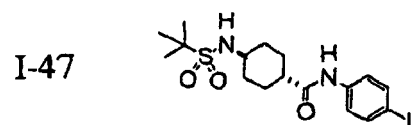
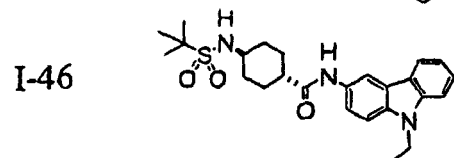
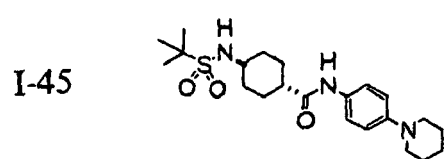


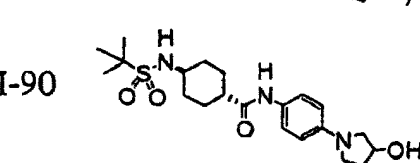
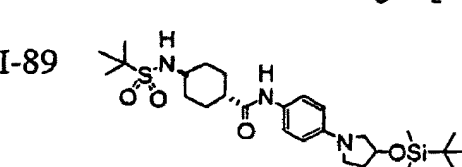
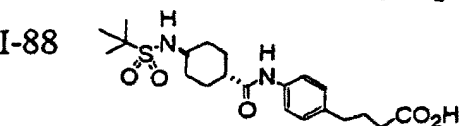
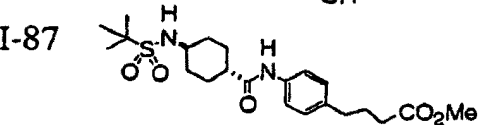
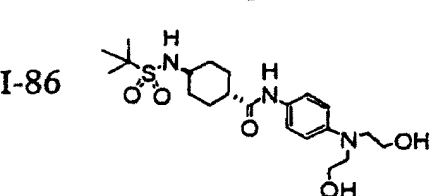
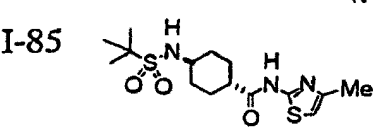
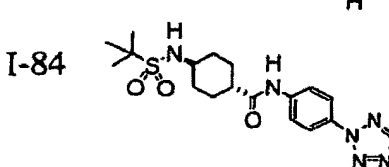
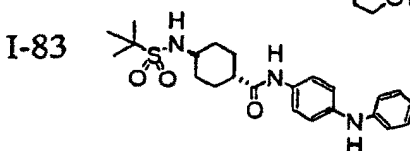
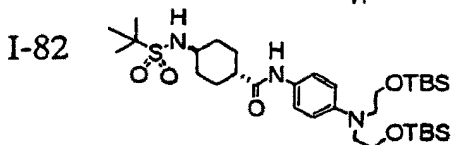
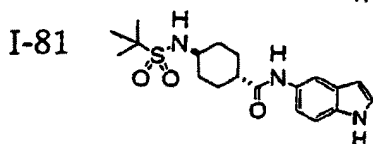
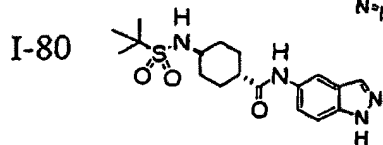
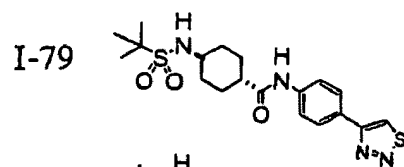
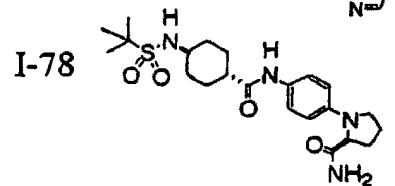
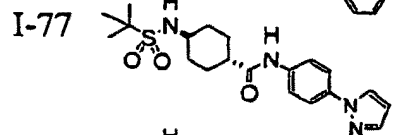
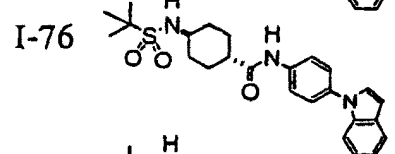
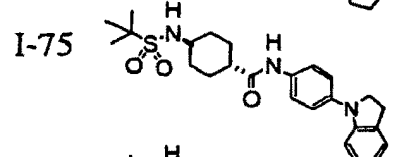
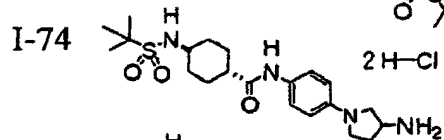
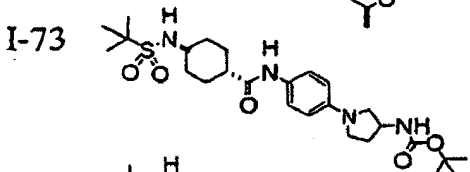
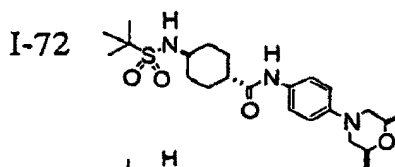
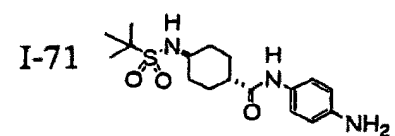
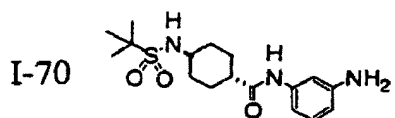
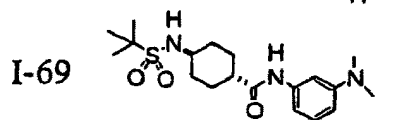
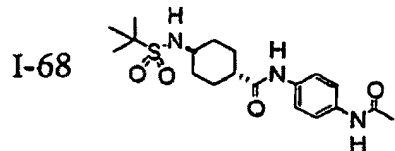
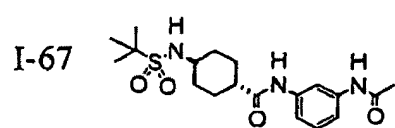
Se disuelven 291 mg de la (4-t-butilfenil)amida del ácido 4-t-butilsulfinilaminopiperidina-1-carboxílico en una mezcla de 2 ml de metanol y 2 ml de cloruro de metileno. A esta mezcla se le añaden 570 mg de MMPP (monoperoxifalato magnésico hexahidratado) del 80% y se agita la mezcla a temperatura ambiente durante 2 horas. Se diluye la solución con agua y se extrae con acetato de etilo. Se lava la fase orgánica con salmuera y se seca con sulfato magnésico anhidro. Se elimina el disolvente a presión reducida y se purifica el residuo por cromatografía a través de gel de sílice, obteniéndose 130 mg de la (4-t-butilfenil)amida del ácido 4-t-butilsulfinilaminopiperidina-1-carboxílico (I-120).

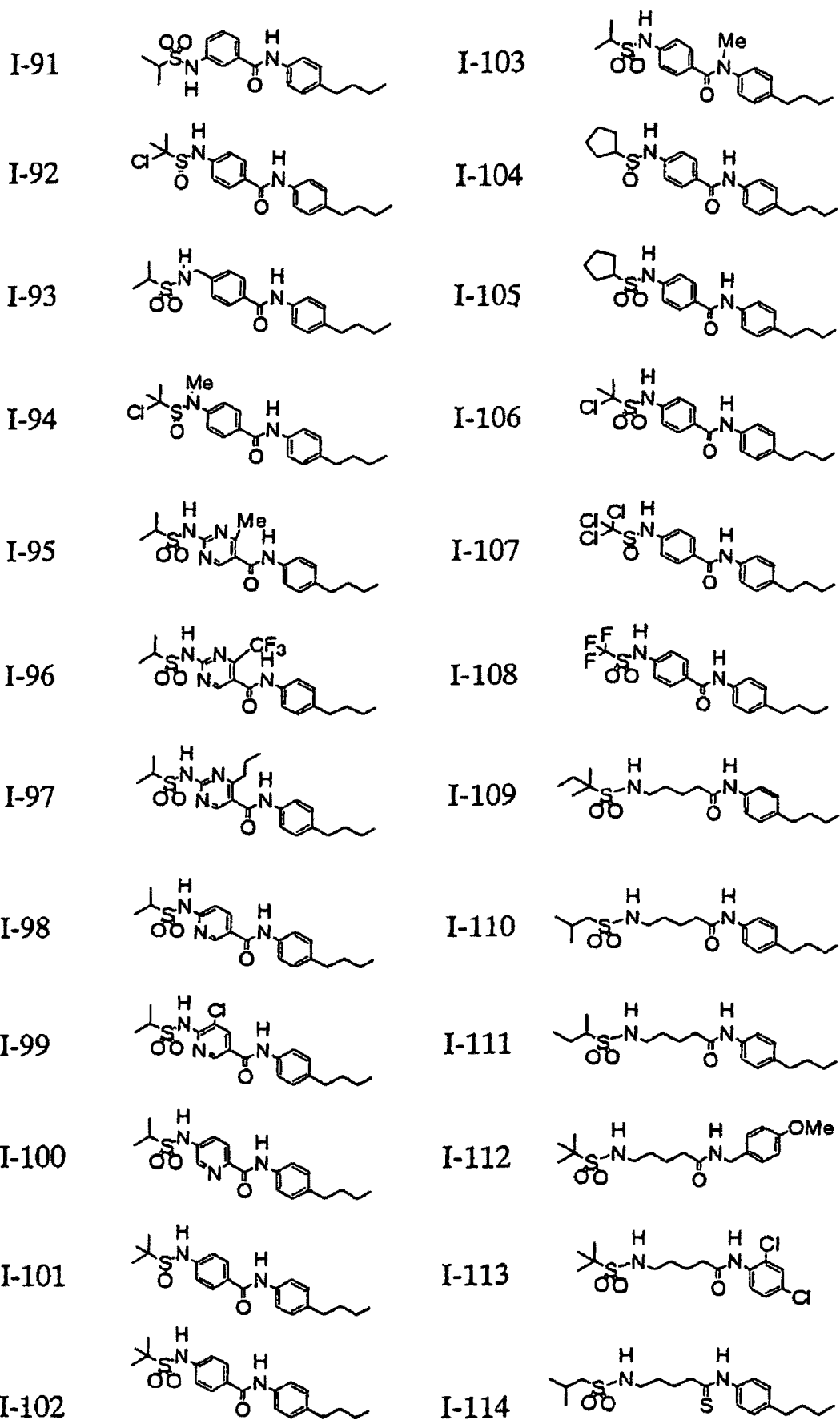
Se sintetizan otros compuestos (I) por métodos similares. Las estructuras y propiedades físicas se presentan a continuación.



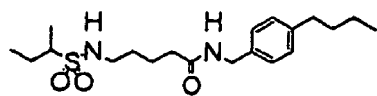




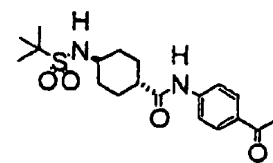




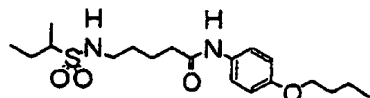
I-115



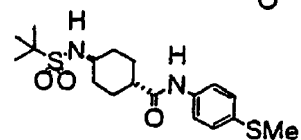
I-127



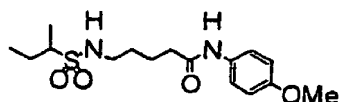
I-116



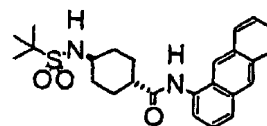
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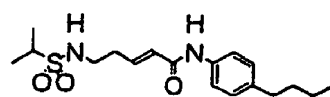
I-117



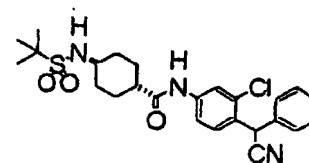
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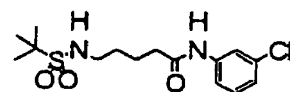
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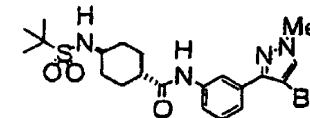
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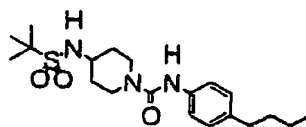
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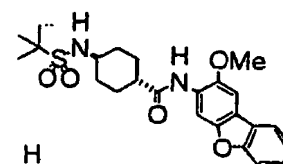
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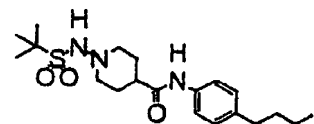
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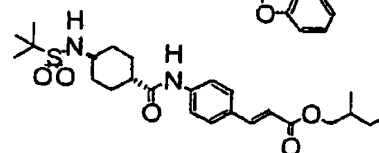
I-132



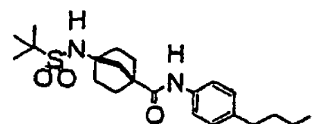
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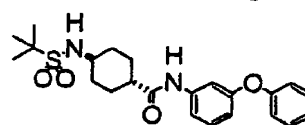
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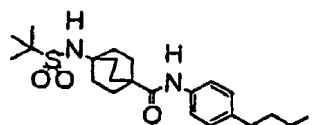
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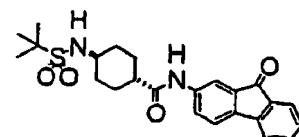
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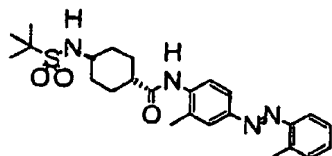
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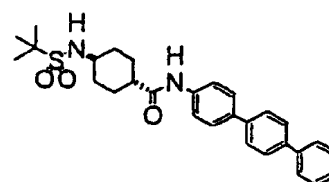
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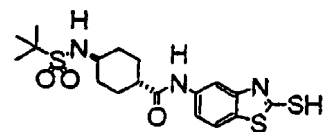
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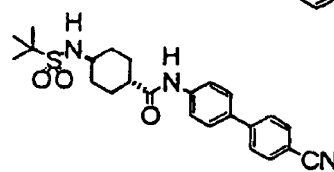
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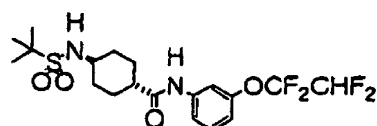
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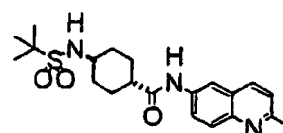
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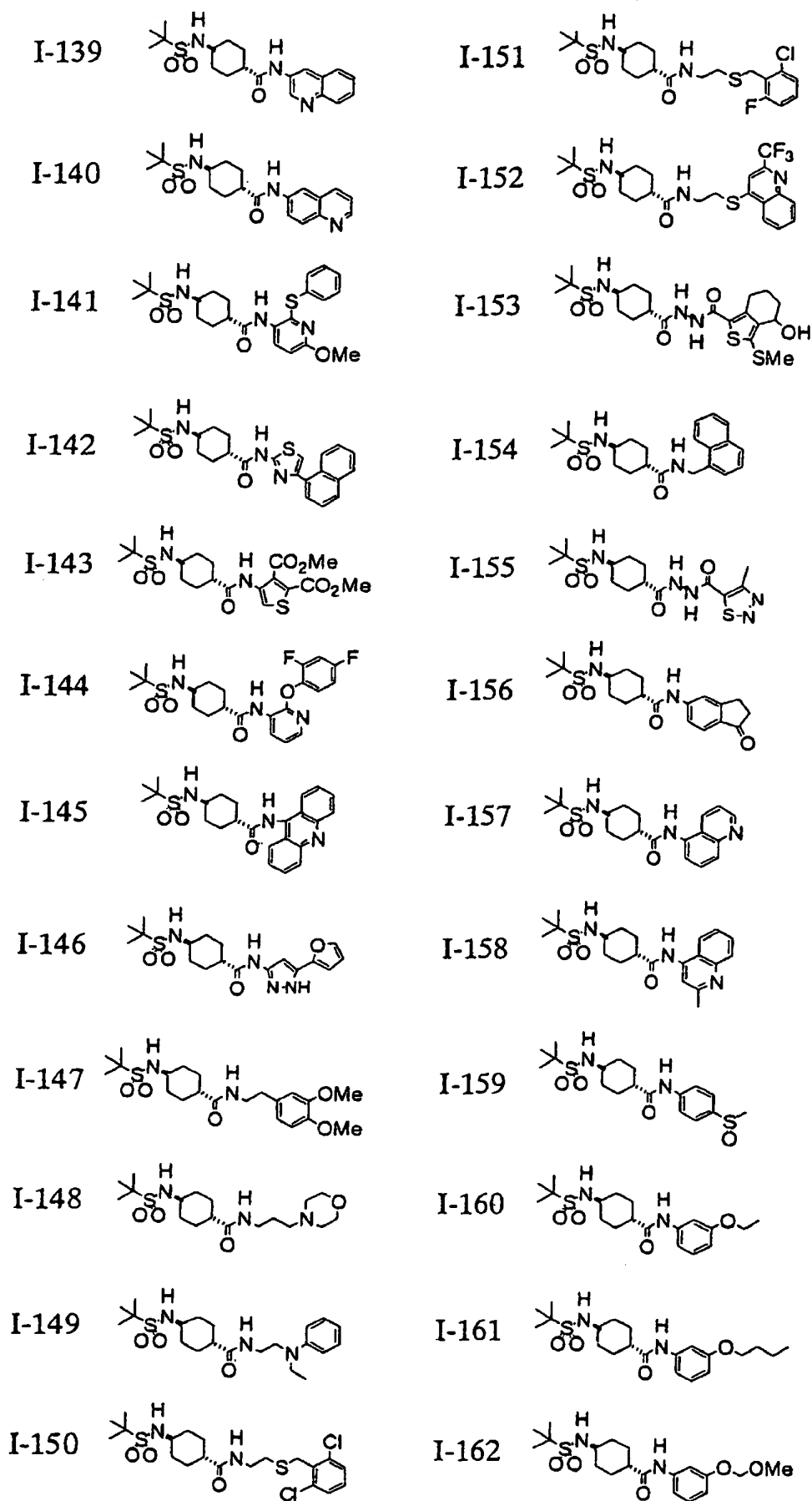


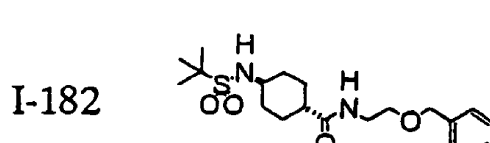
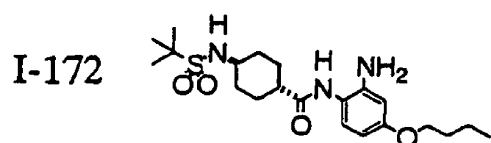
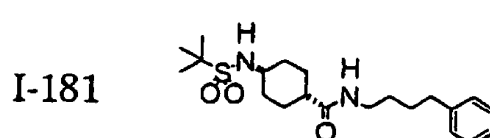
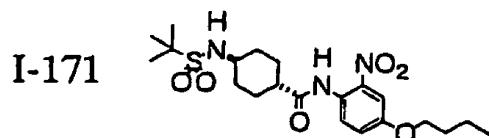
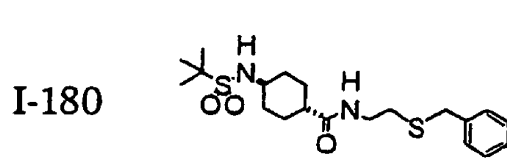
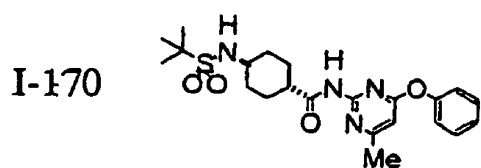
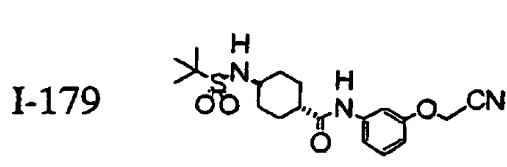
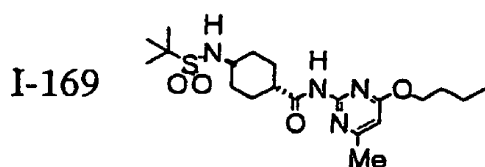
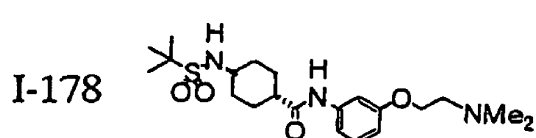
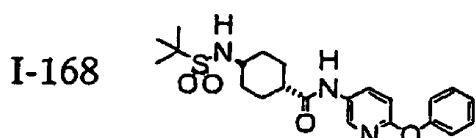
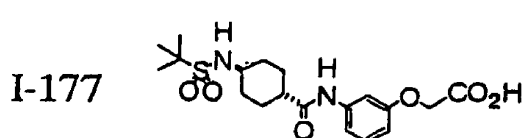
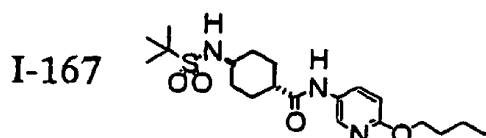
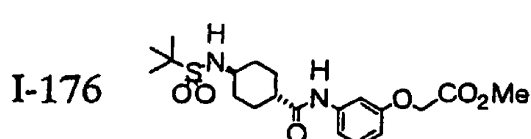
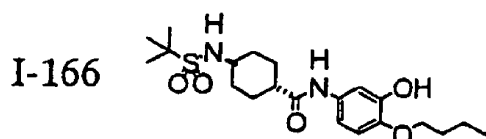
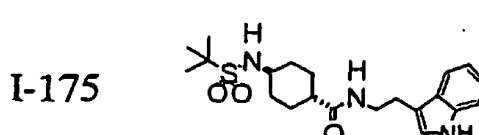
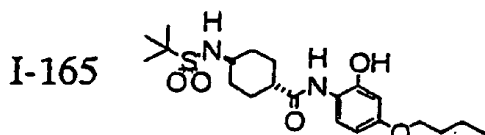
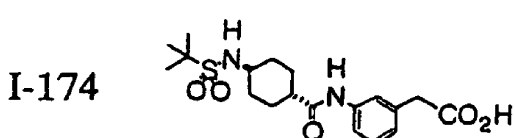
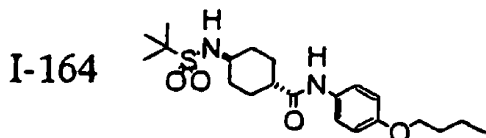
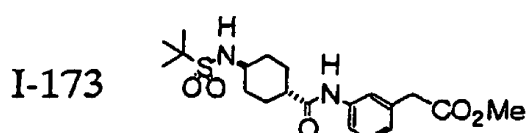
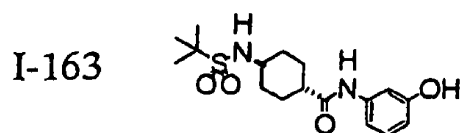
I-126

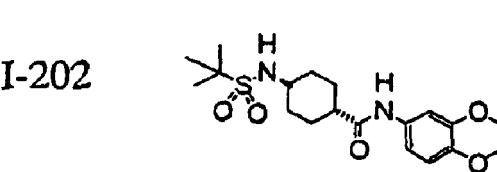
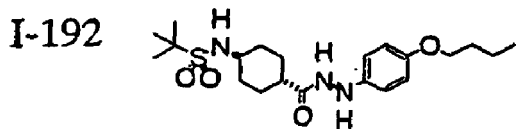
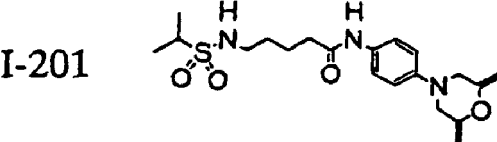
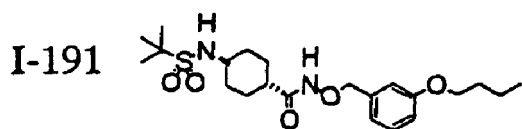
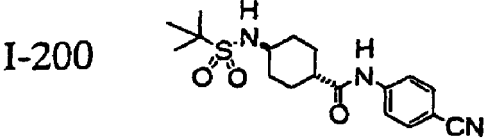
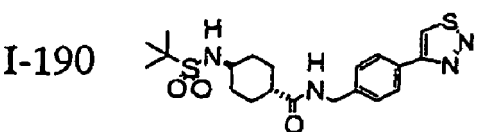
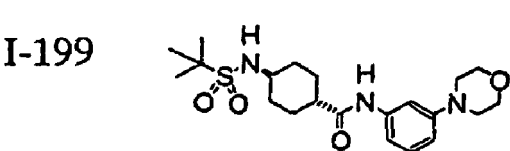
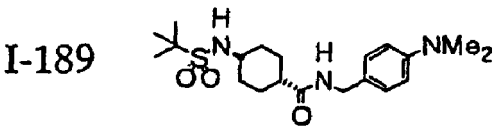
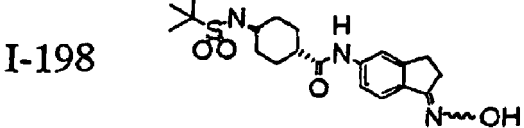
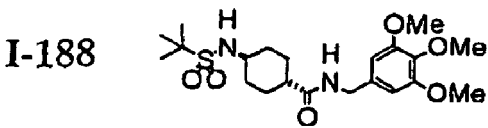
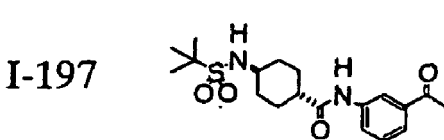
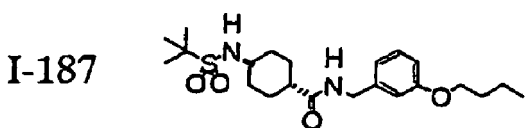
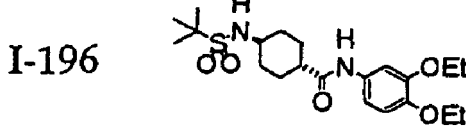
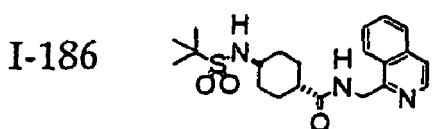
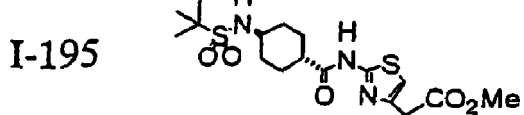
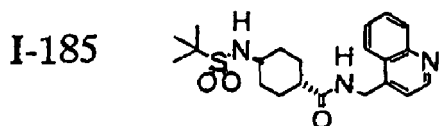
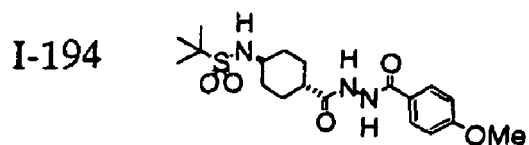
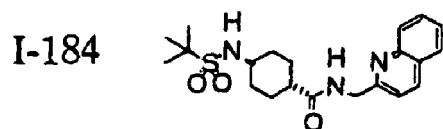
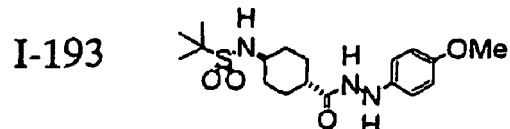
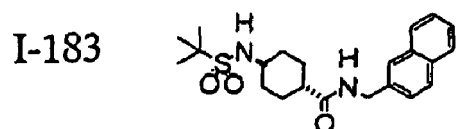


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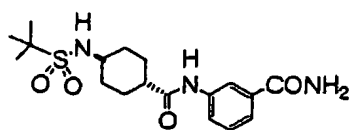




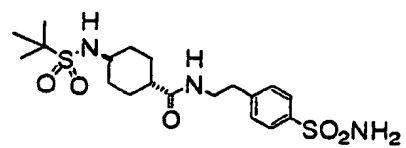




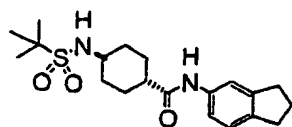
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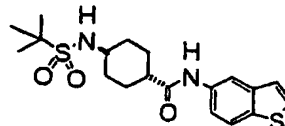
I-209



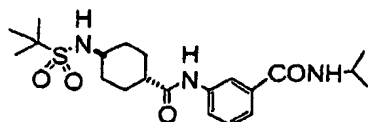
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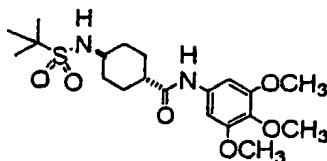
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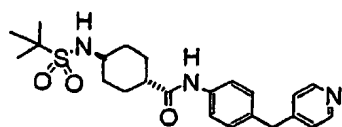
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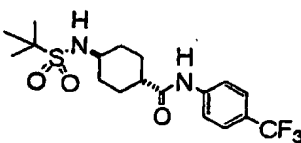
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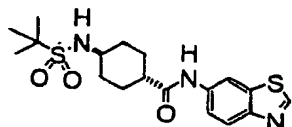
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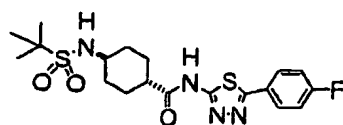
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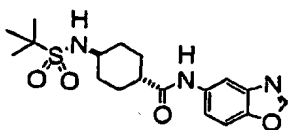
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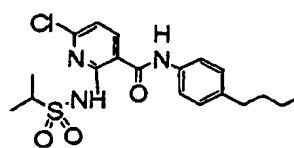
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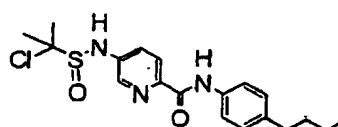
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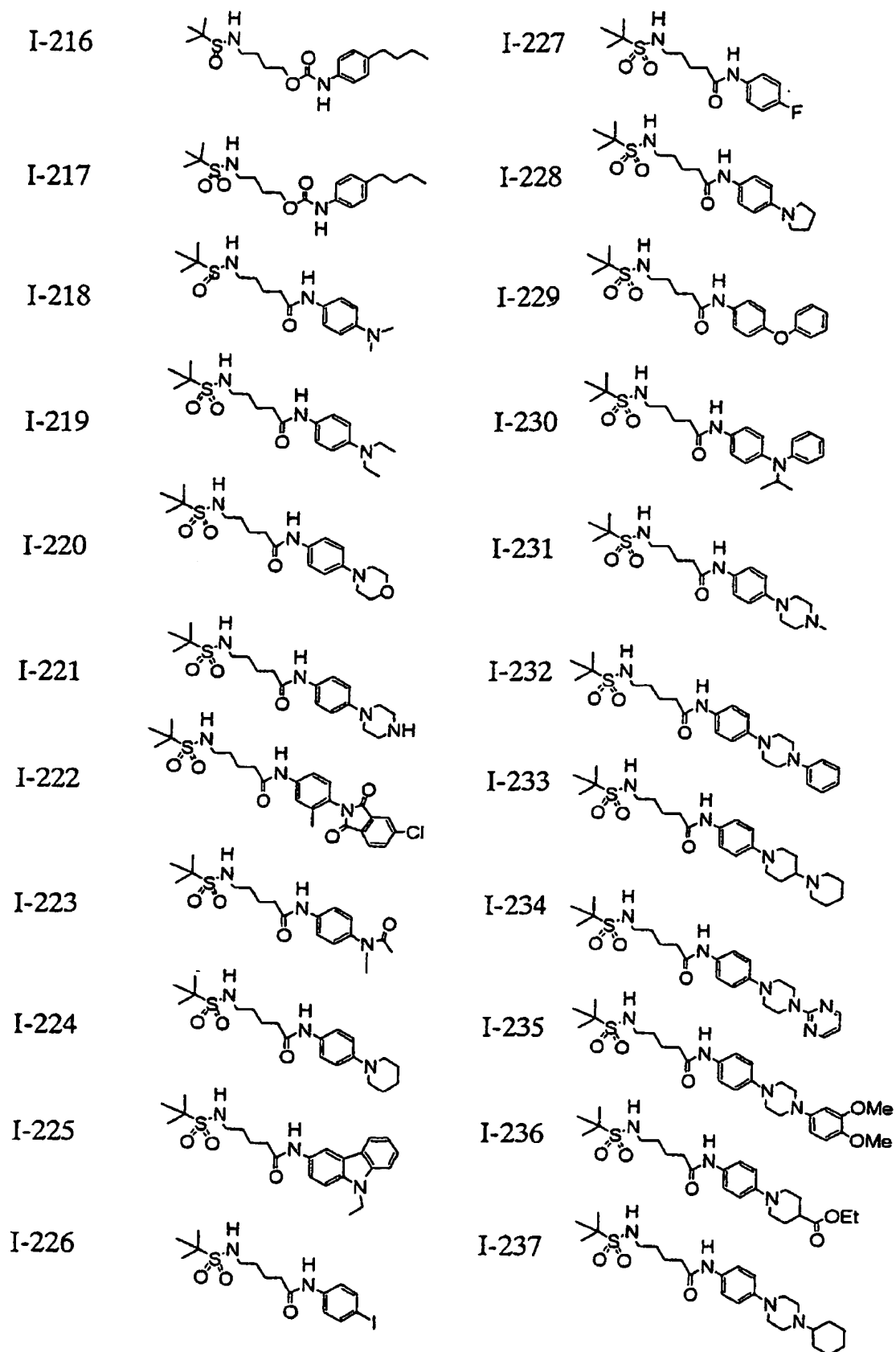


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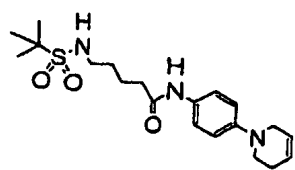


I-215

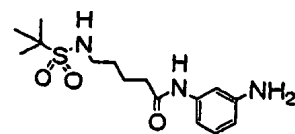




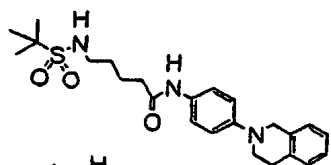
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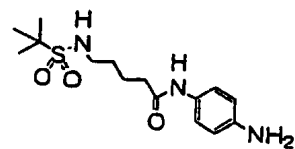
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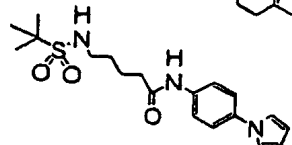
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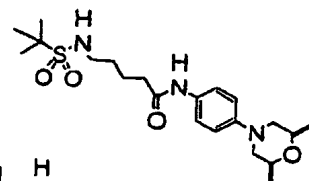
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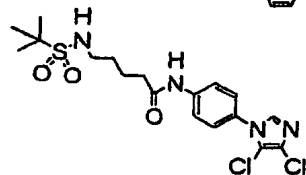
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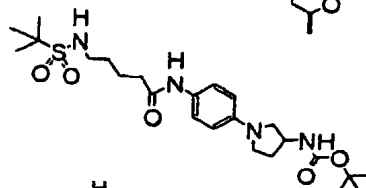
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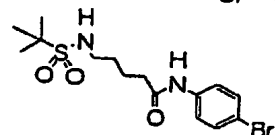
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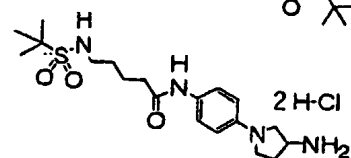
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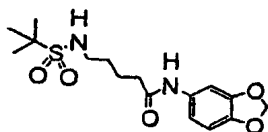
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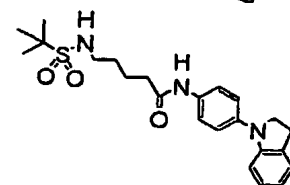
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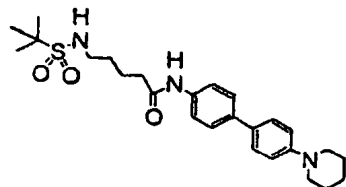
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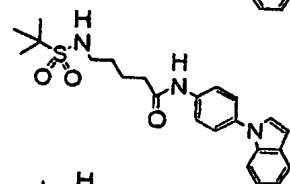
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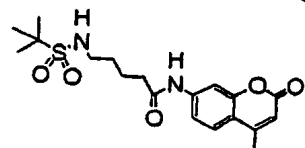
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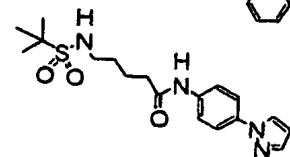
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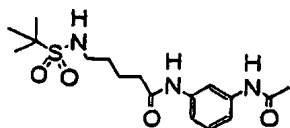
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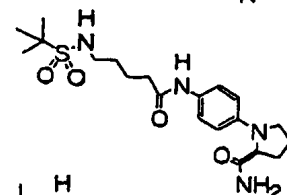
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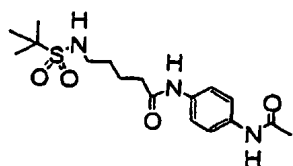
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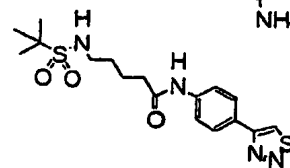
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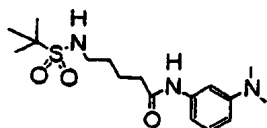
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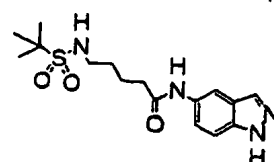
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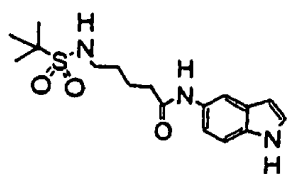
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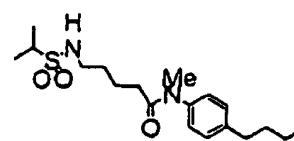
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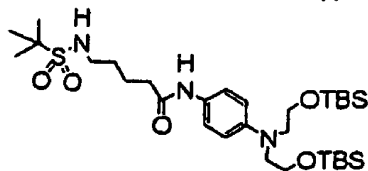
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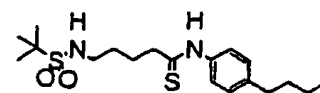
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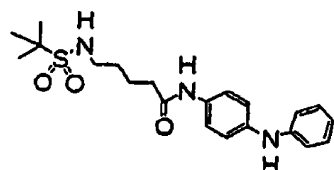
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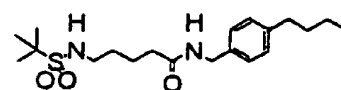
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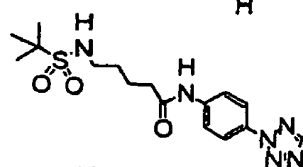
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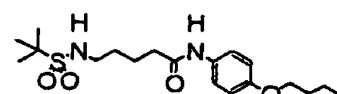
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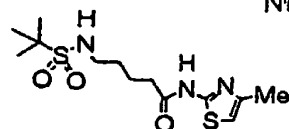
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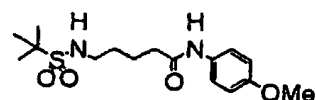
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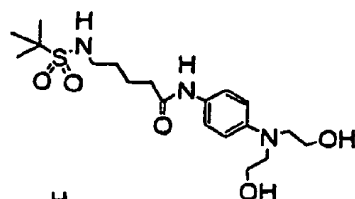
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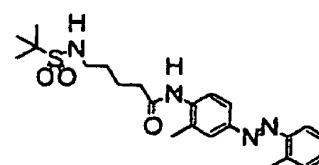
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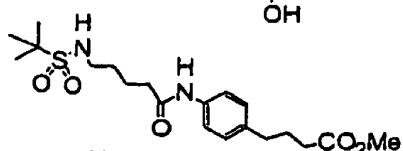
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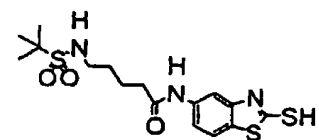
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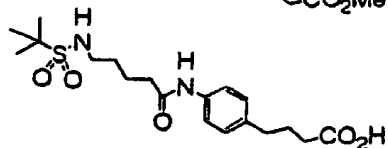
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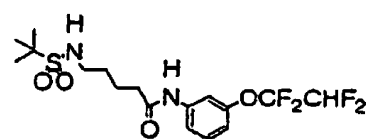
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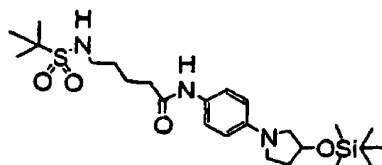
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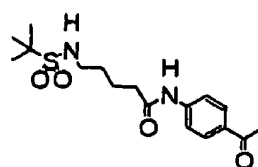
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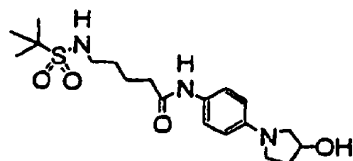
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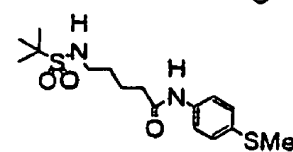
I-279



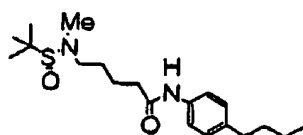
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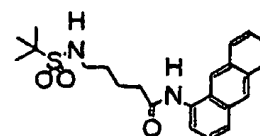
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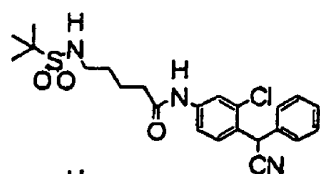
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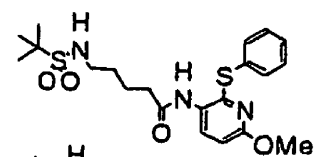
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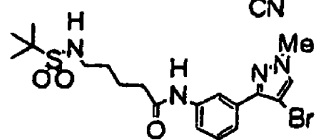
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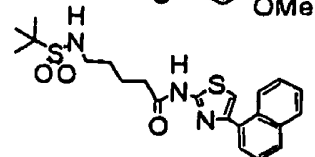
I-293



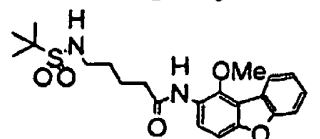
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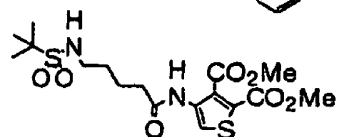
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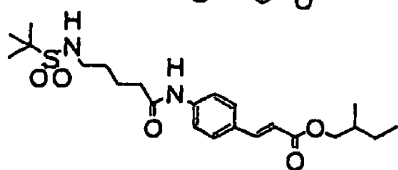
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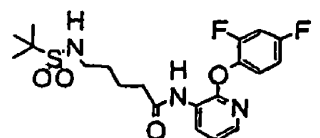
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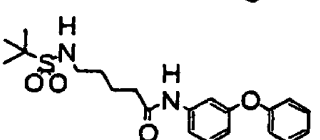
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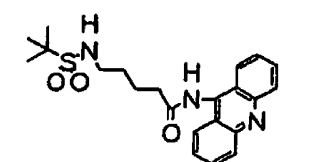
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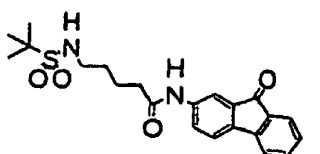
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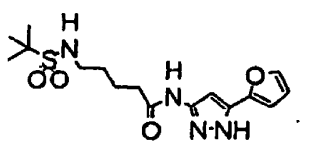
I-297



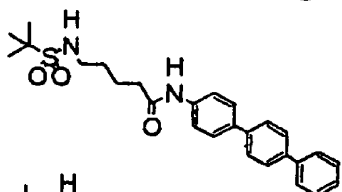
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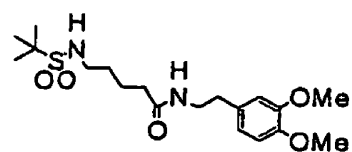
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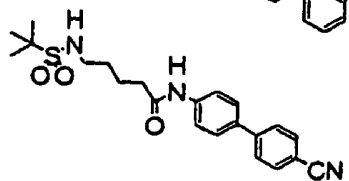
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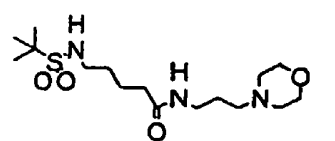
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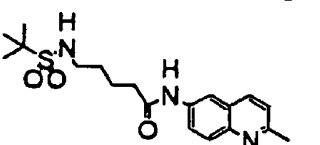
I-289



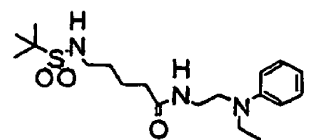
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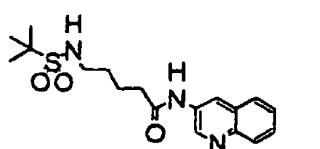
I-290



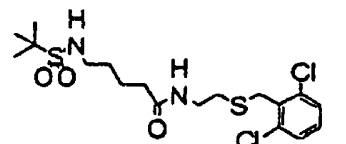
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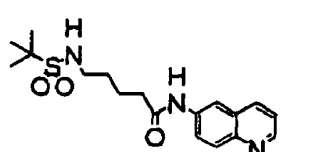
I-291



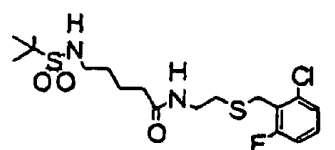
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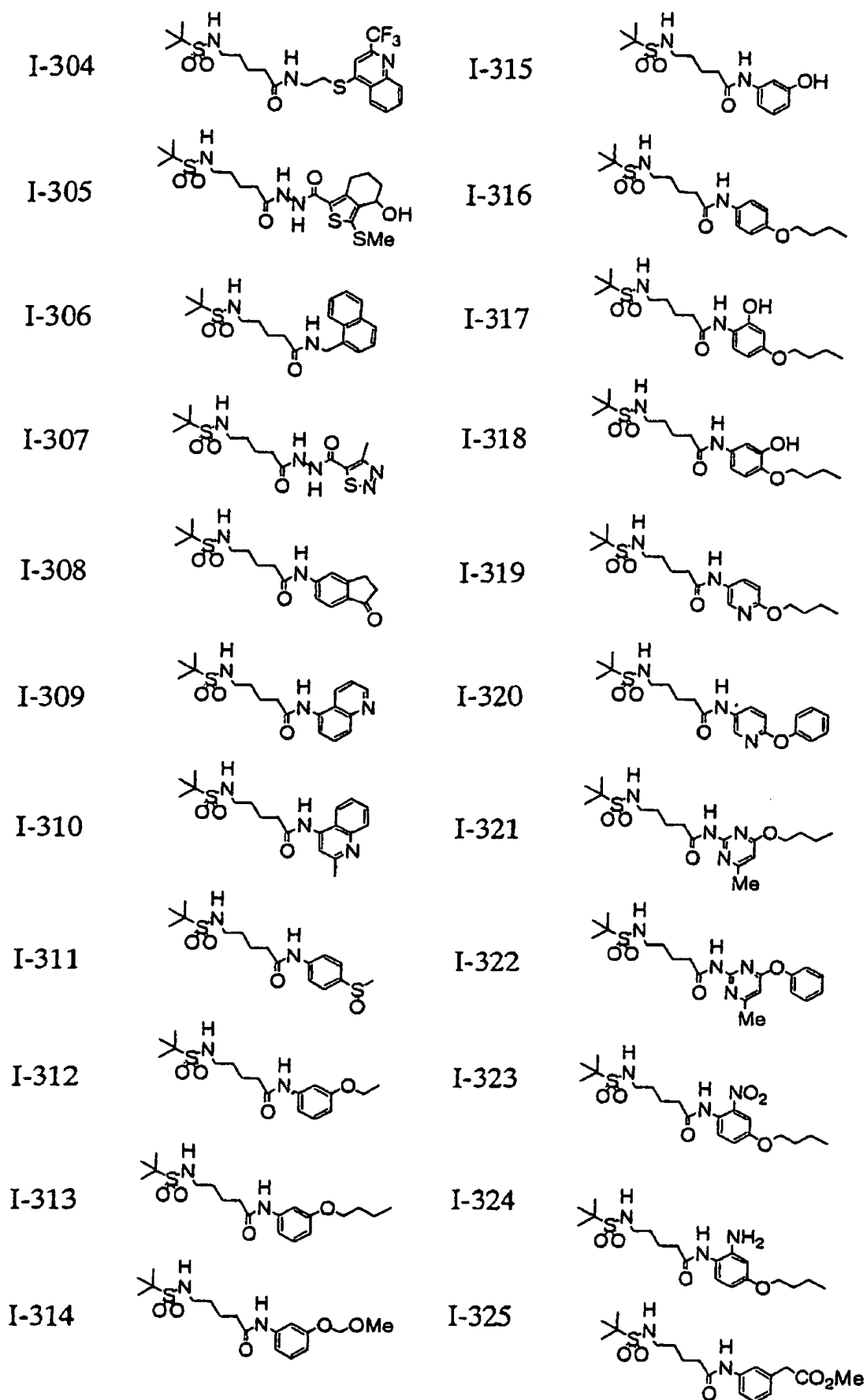


I-292

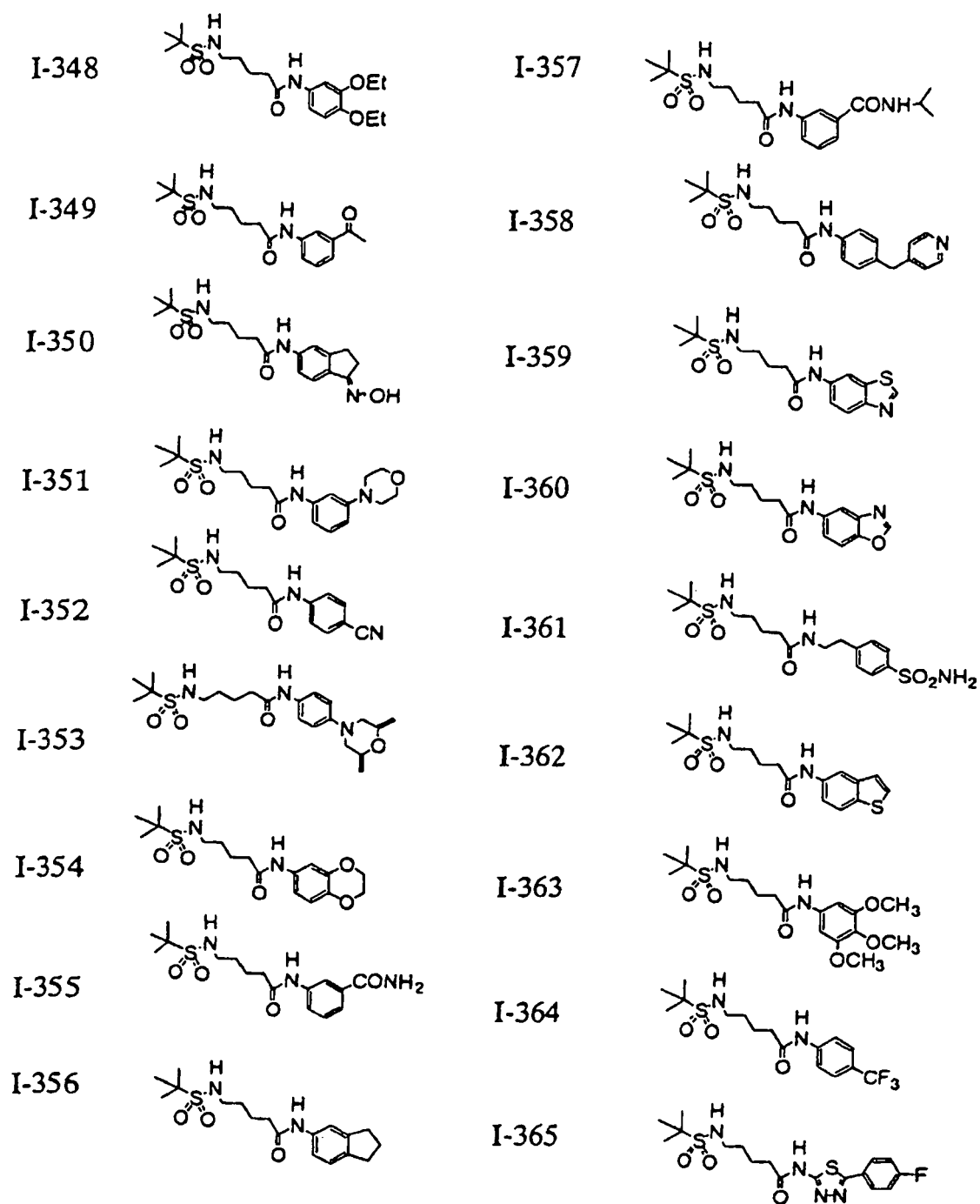


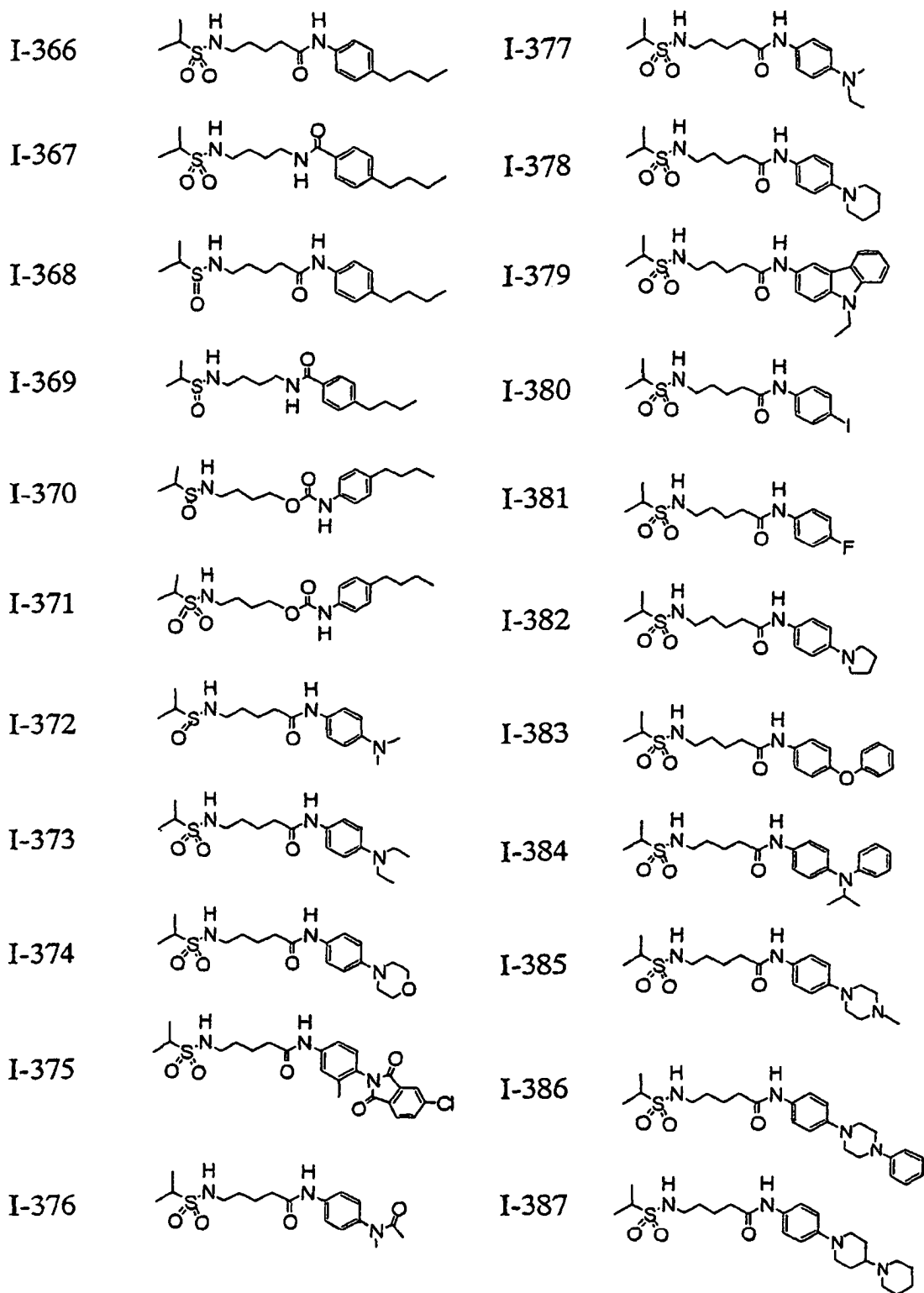
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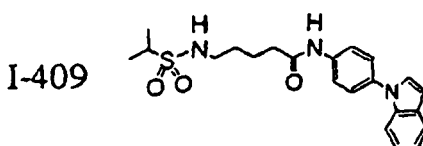
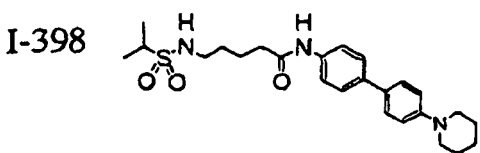
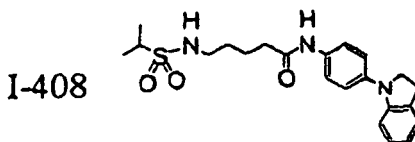
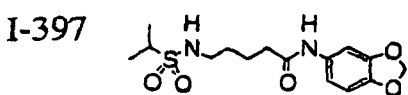
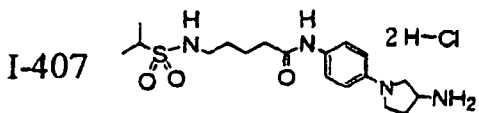
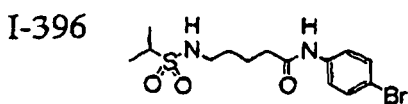
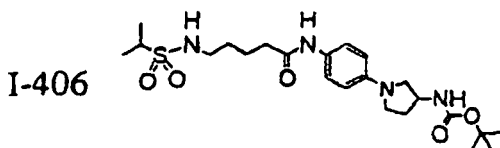
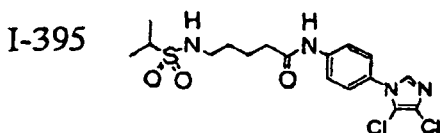
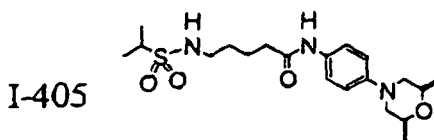
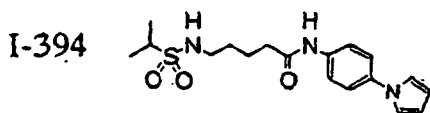
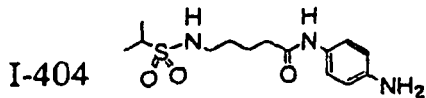
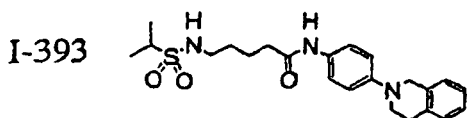
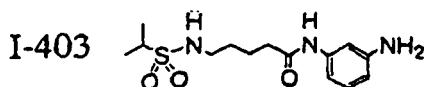
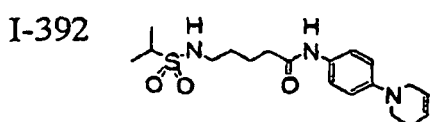
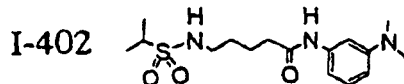
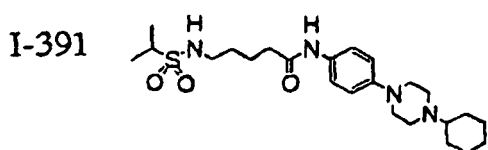
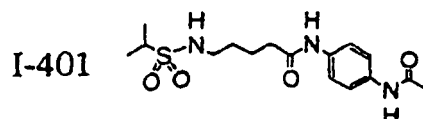
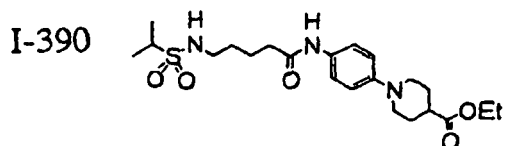
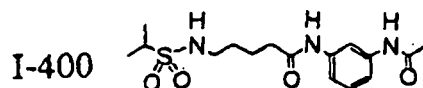
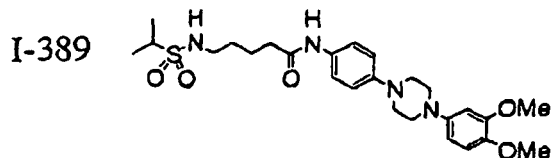
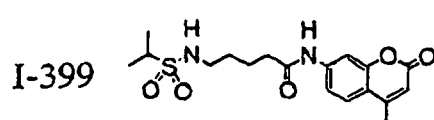
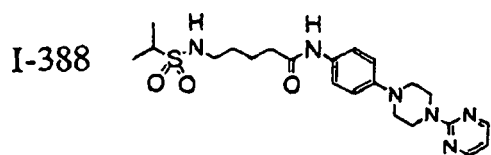


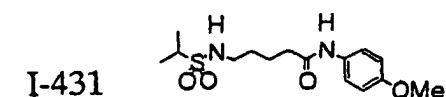
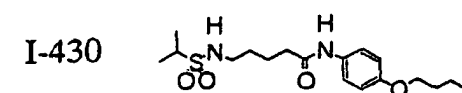
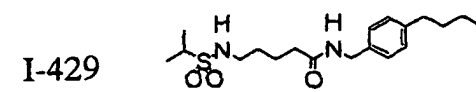
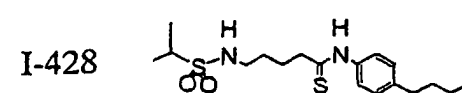
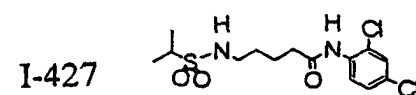
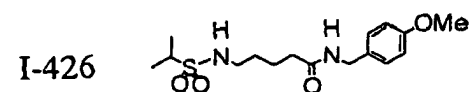
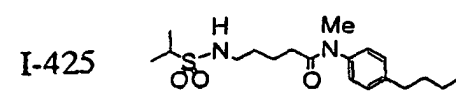
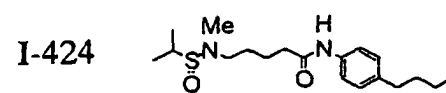
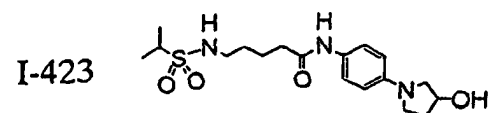
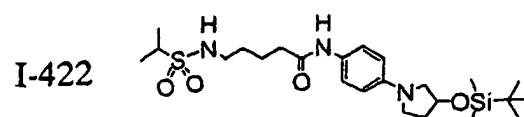
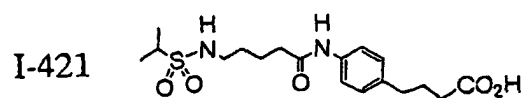
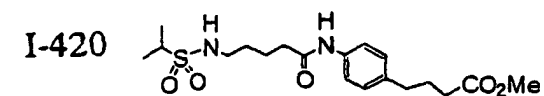
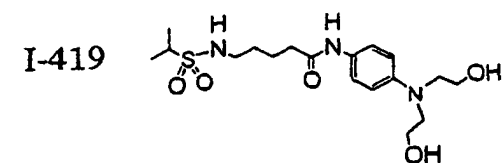
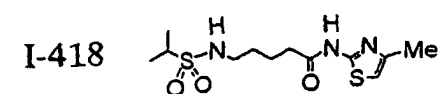
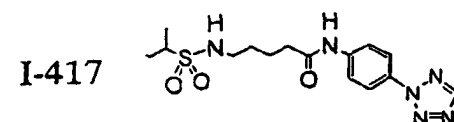
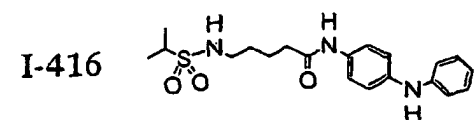
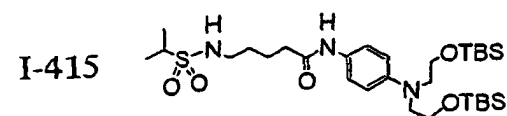
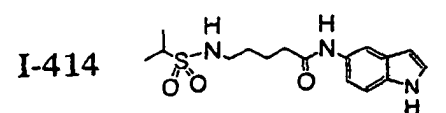
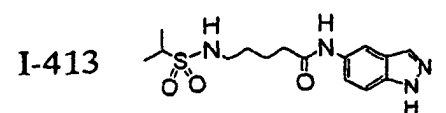
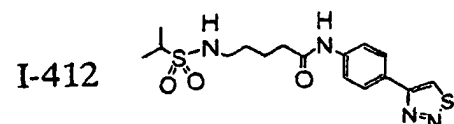
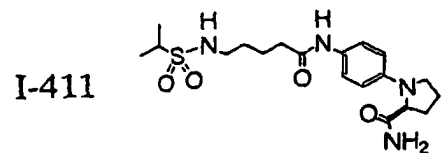
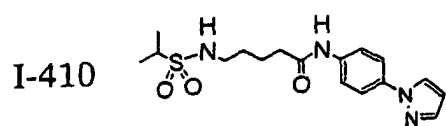


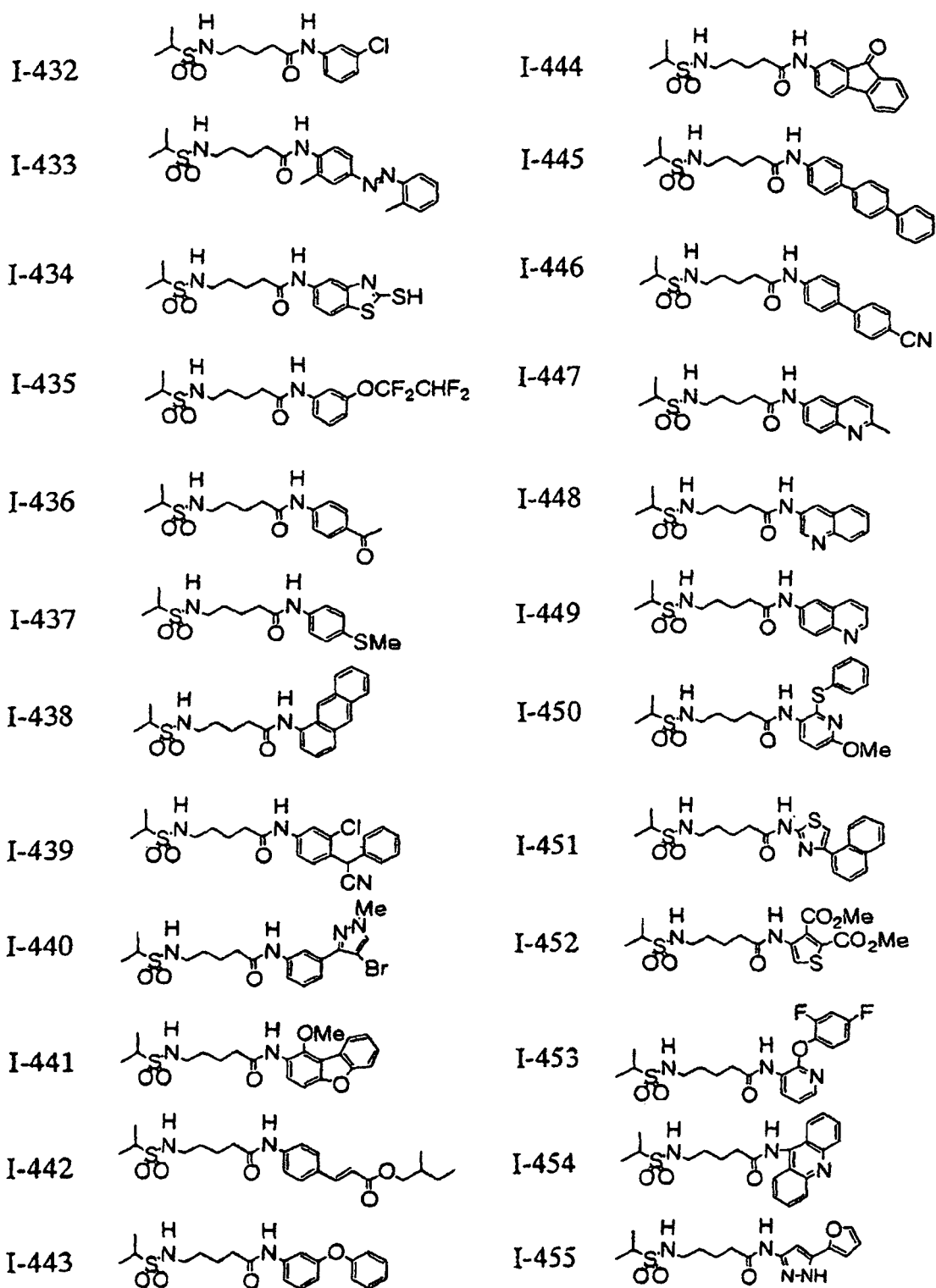
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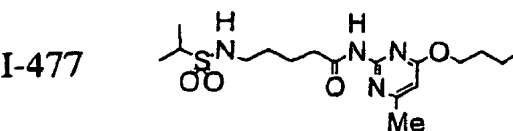
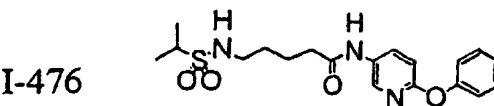
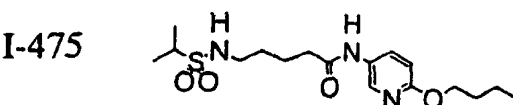
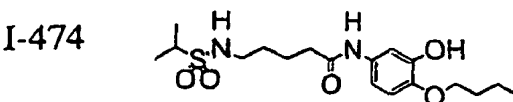
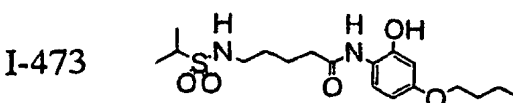
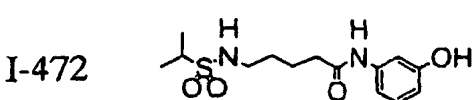
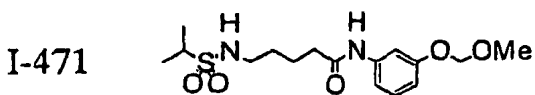
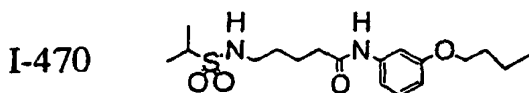
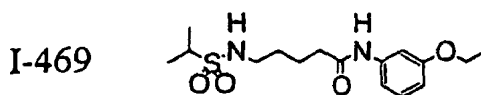
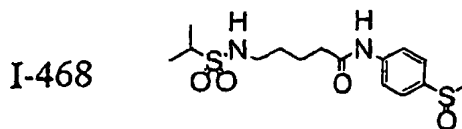
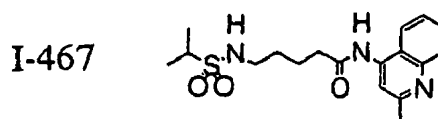
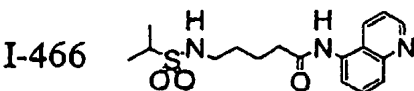
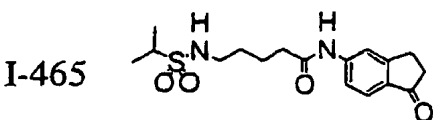
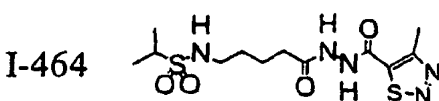
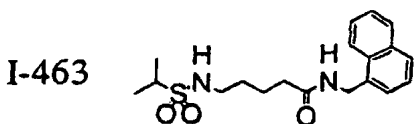
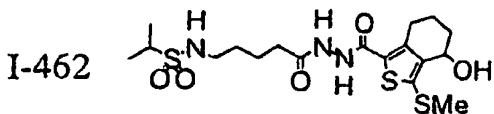
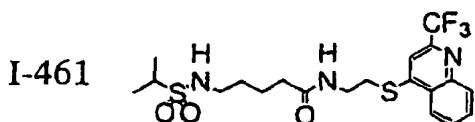
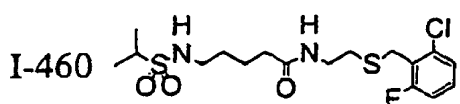
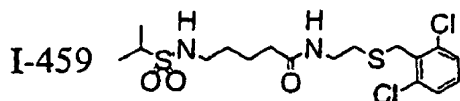
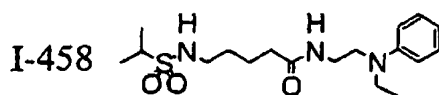
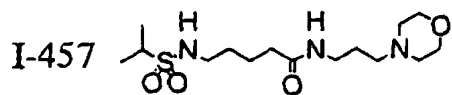
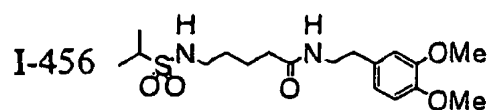


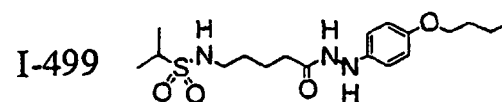
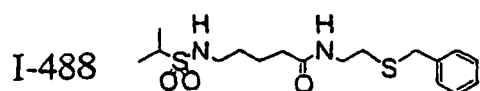
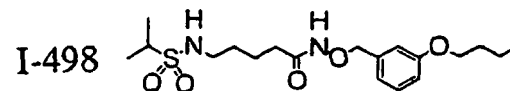
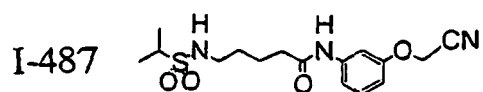
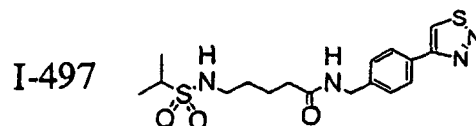
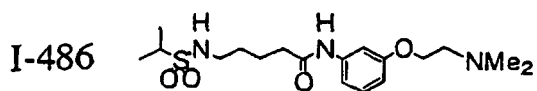
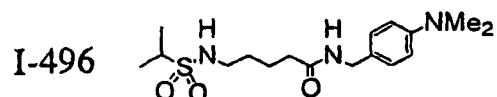
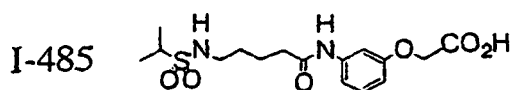
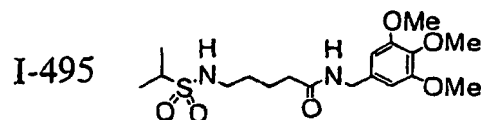
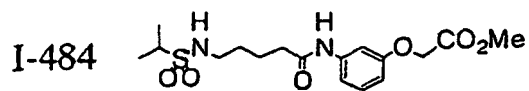
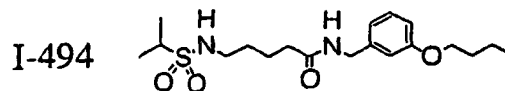
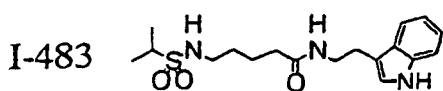
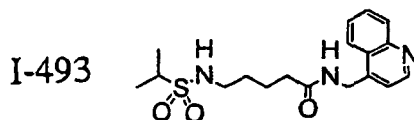
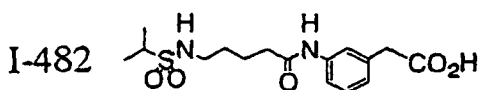
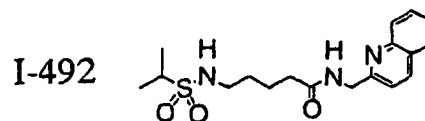
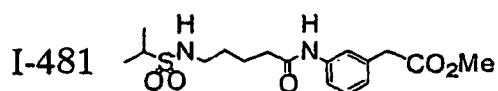
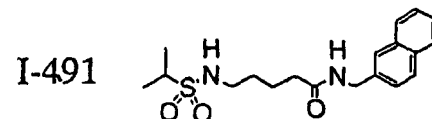
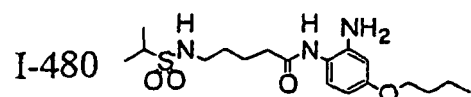
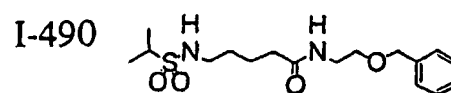
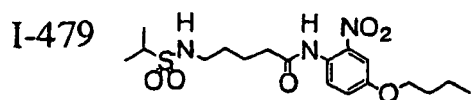
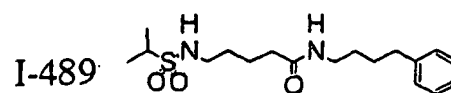
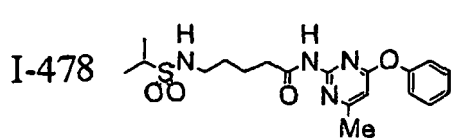


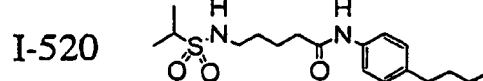
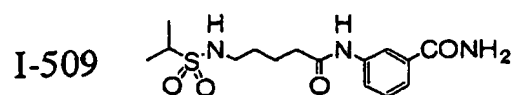
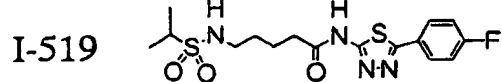
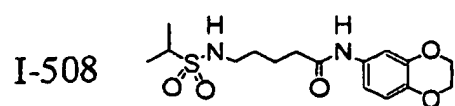
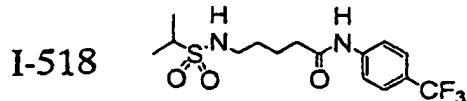
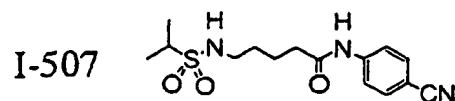
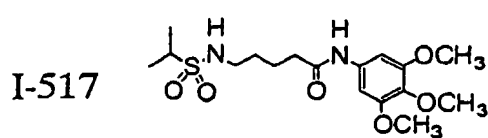
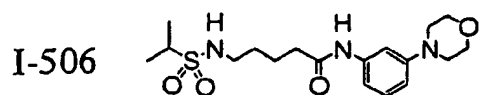
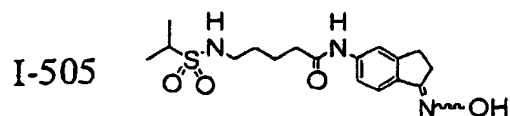
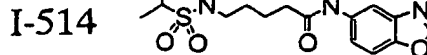
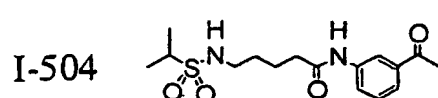
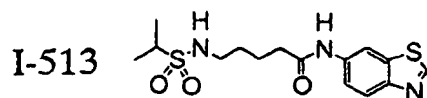
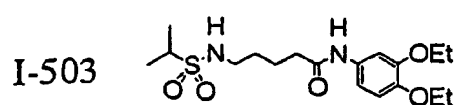
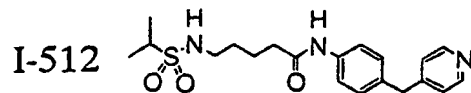
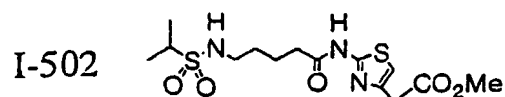
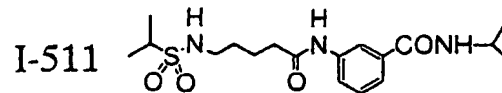
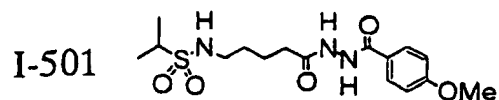
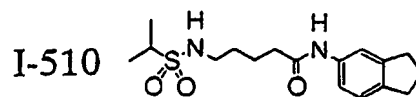
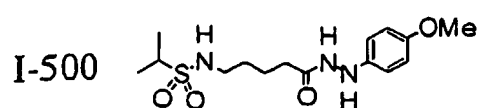


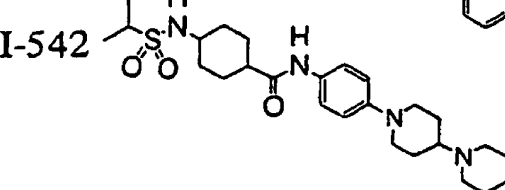
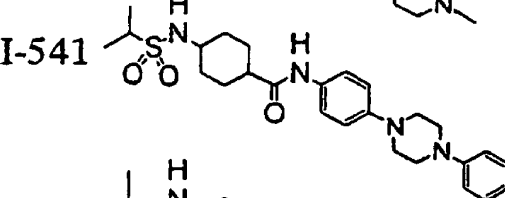
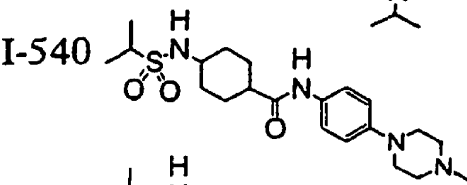
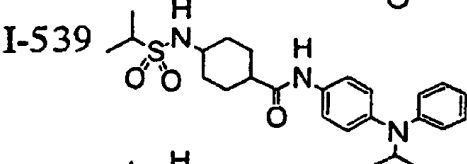
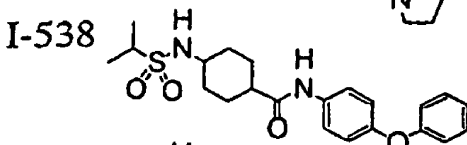
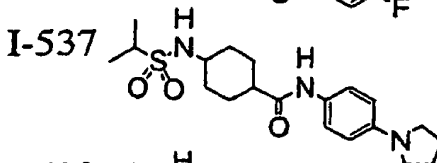
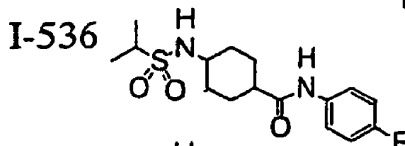
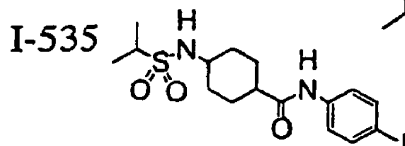
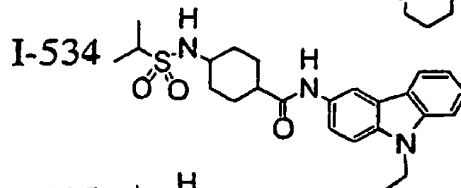
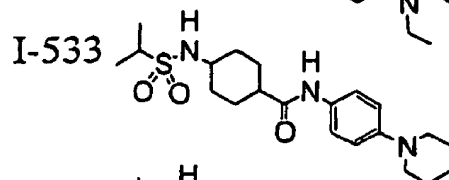
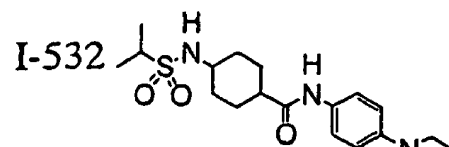
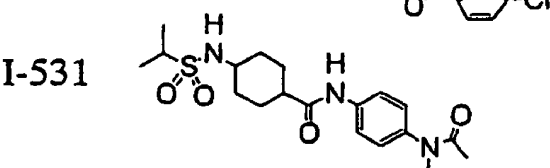
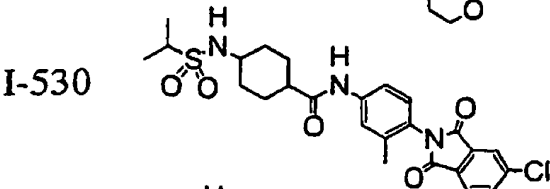
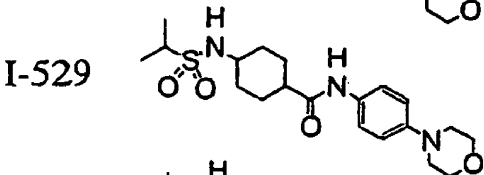
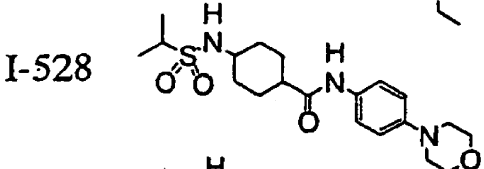
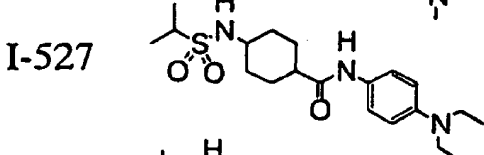
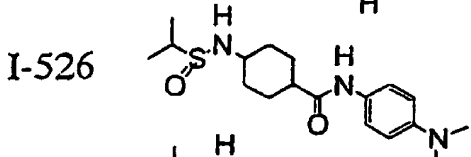
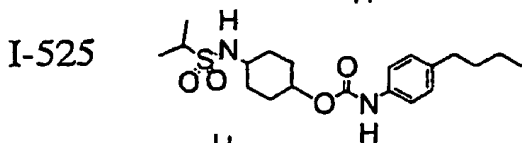
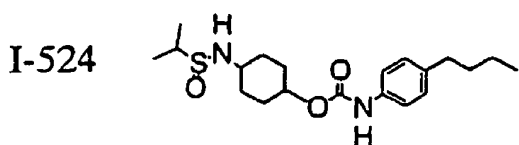
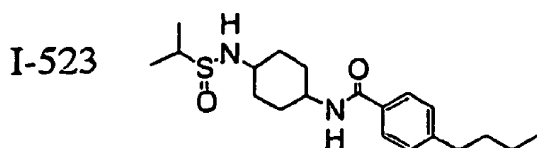
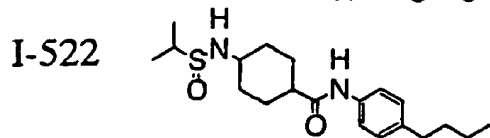
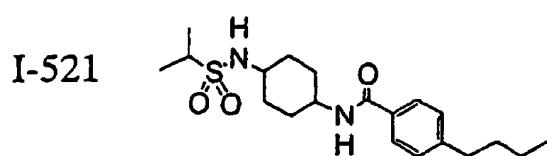


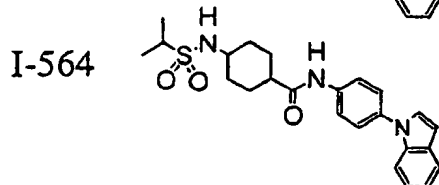
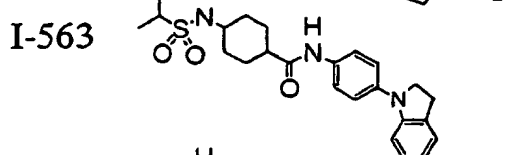
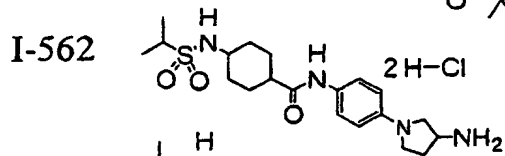
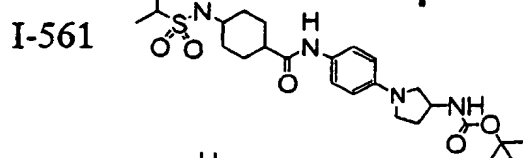
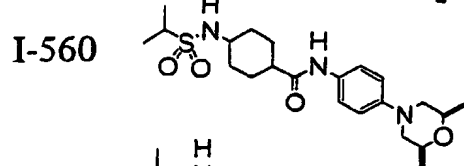
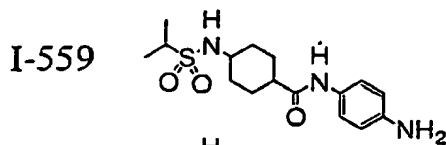
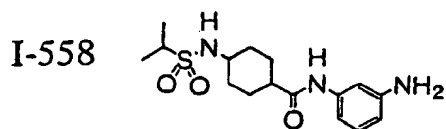
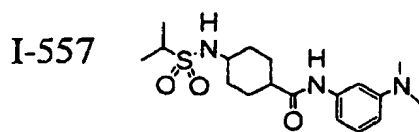
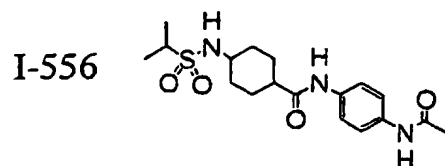
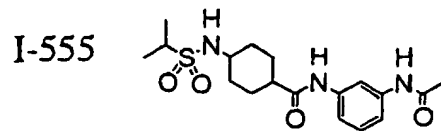
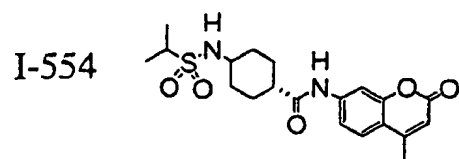
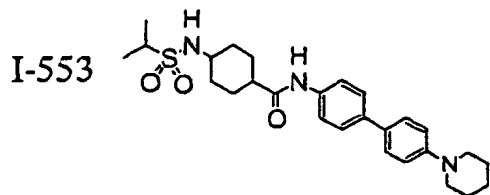
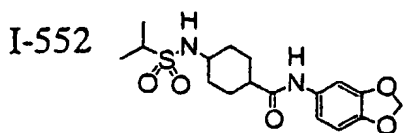
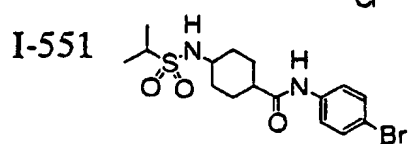
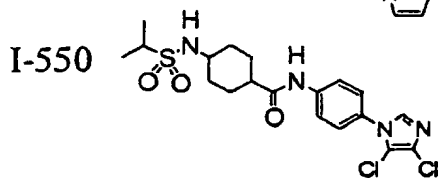
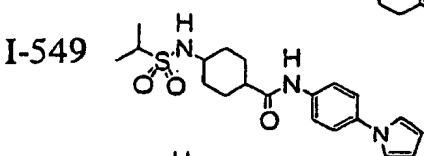
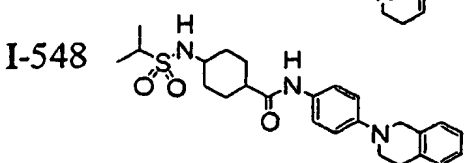
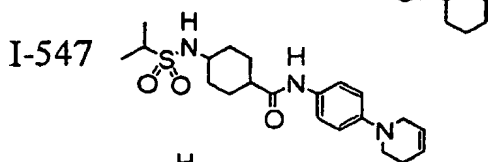
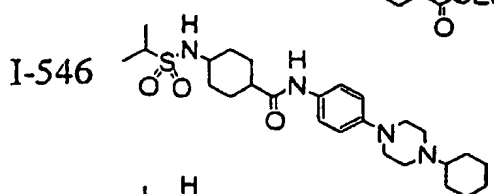
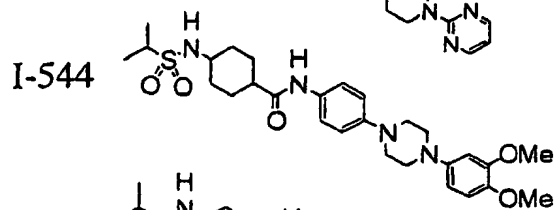
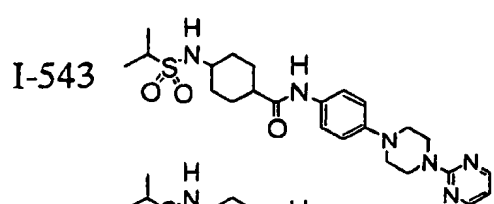


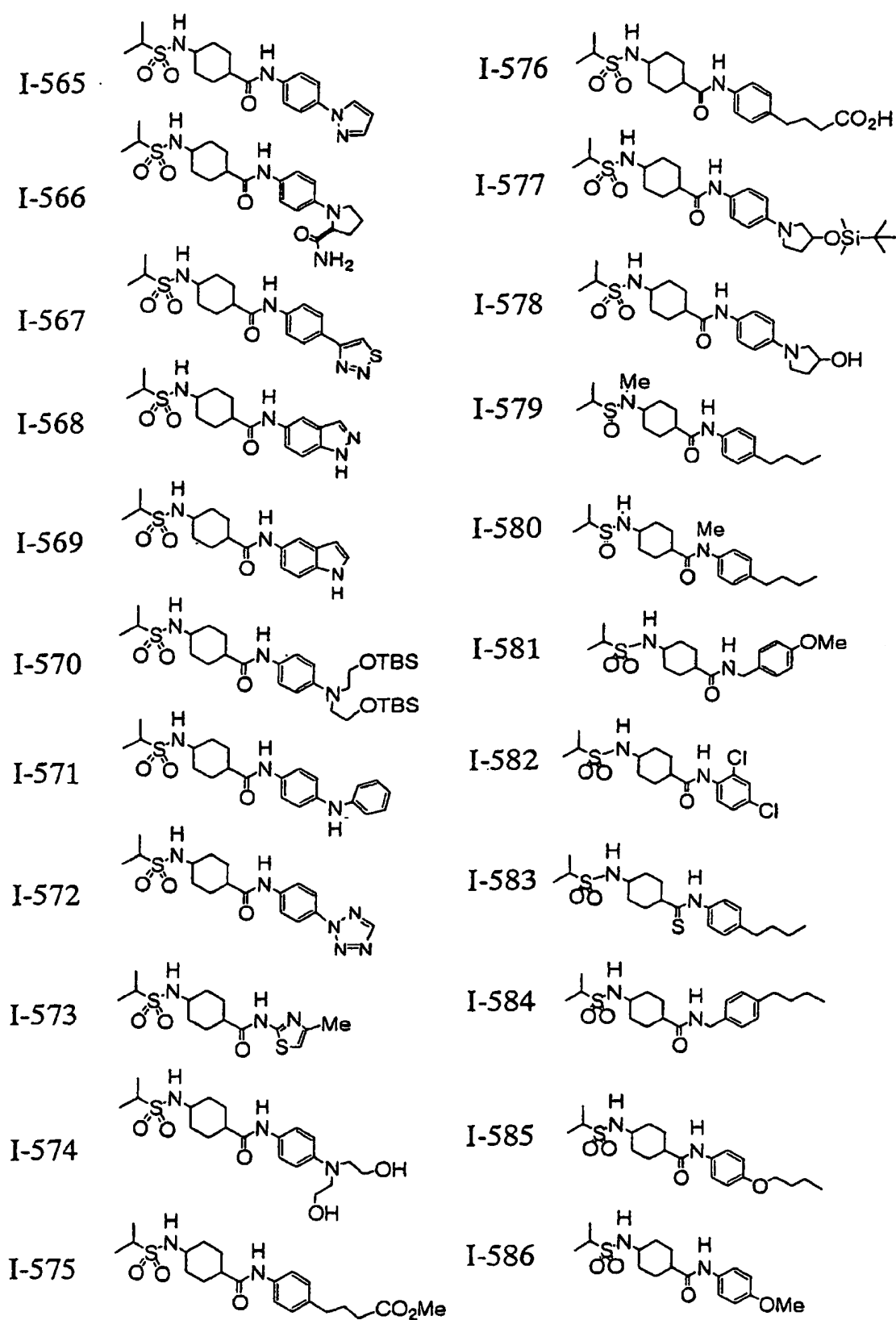


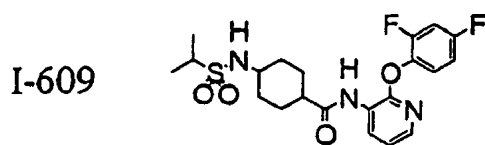
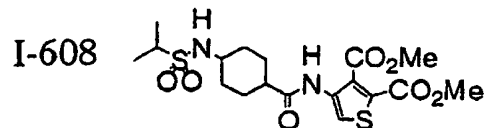
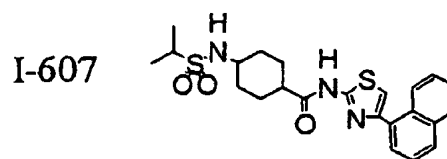
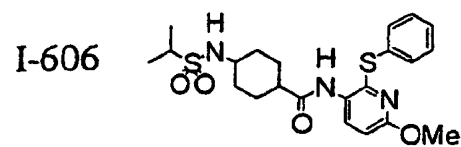
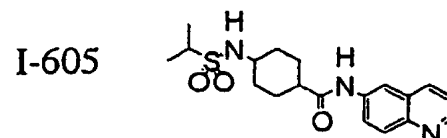
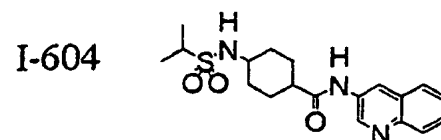
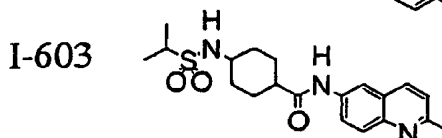
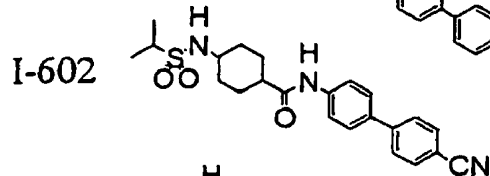
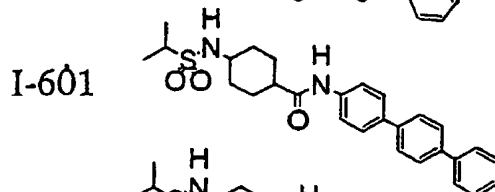
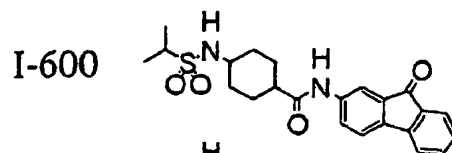
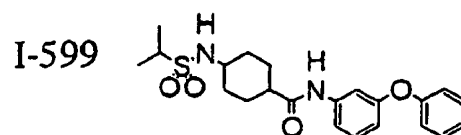
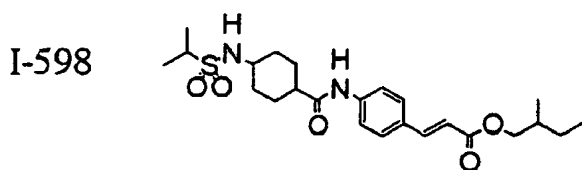
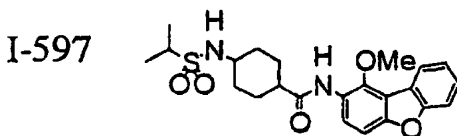
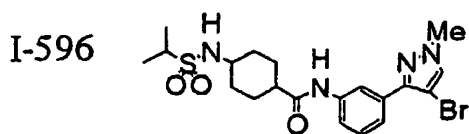
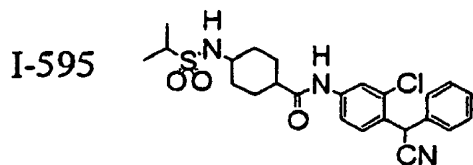
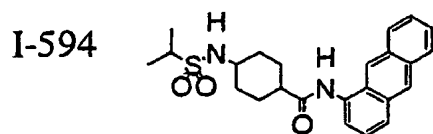
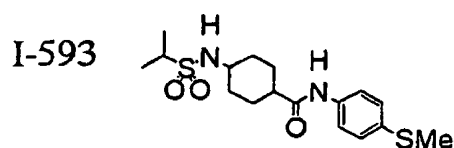
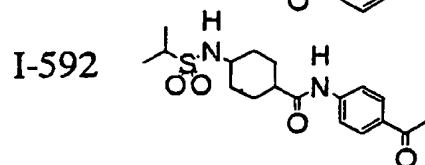
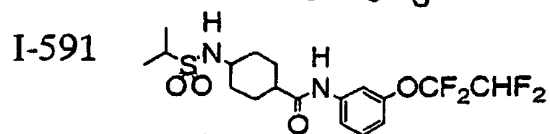
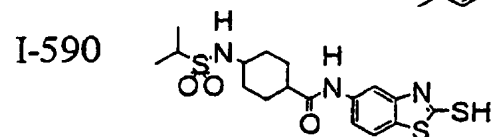
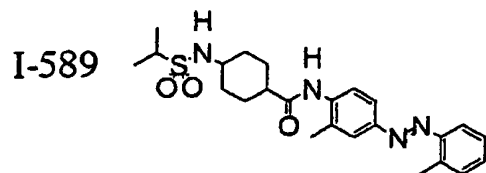
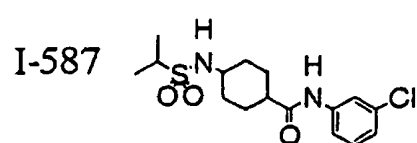


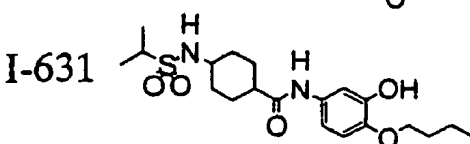
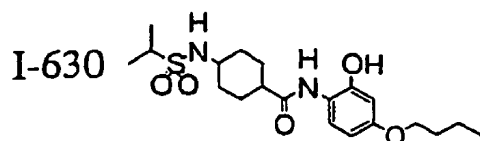
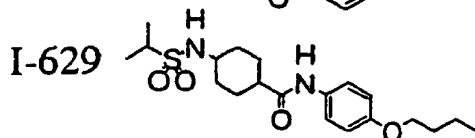
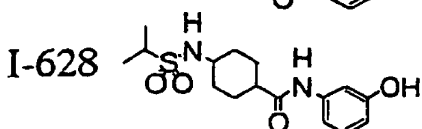
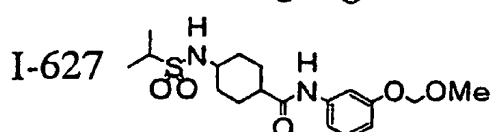
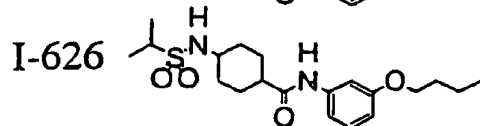
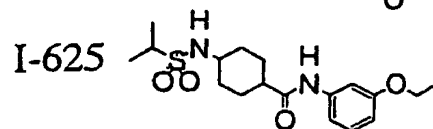
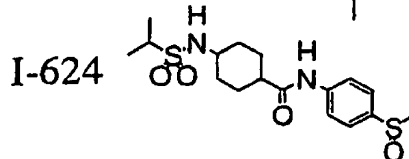
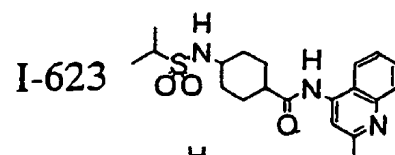
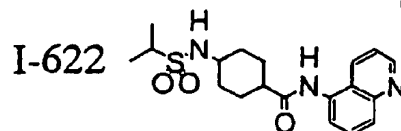
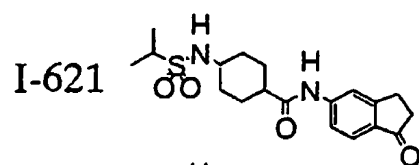
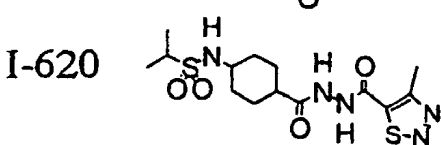
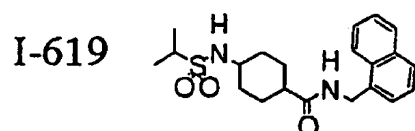
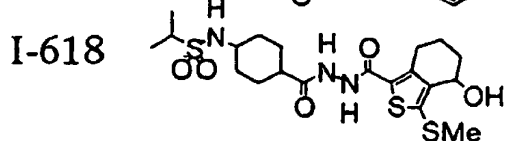
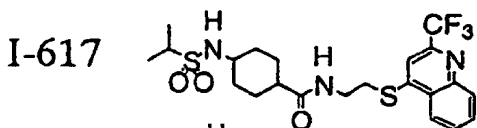
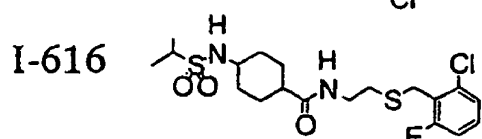
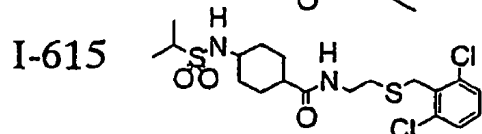
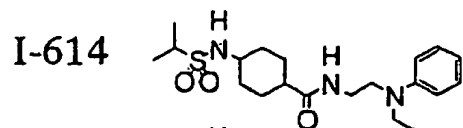
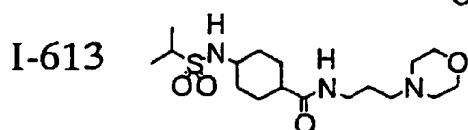
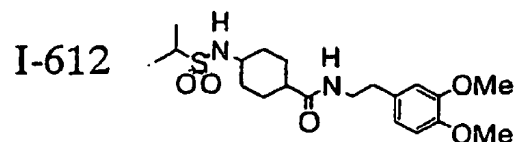
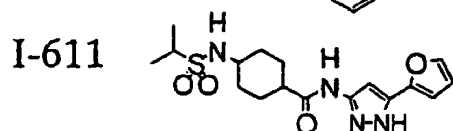
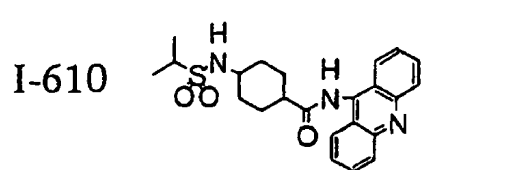


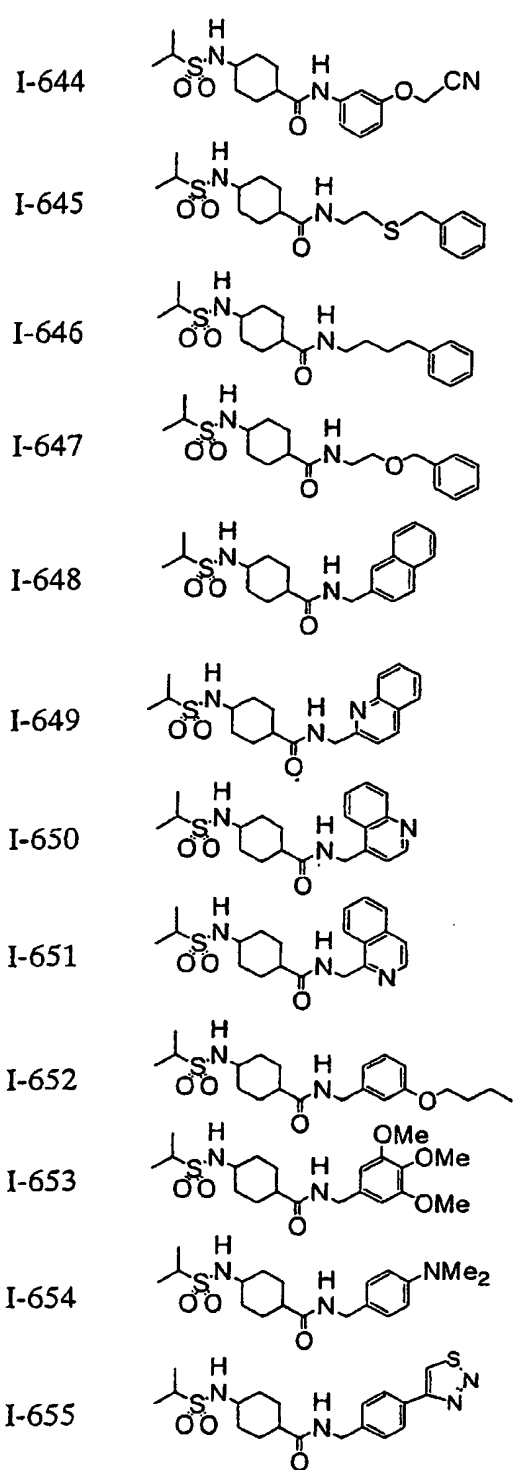
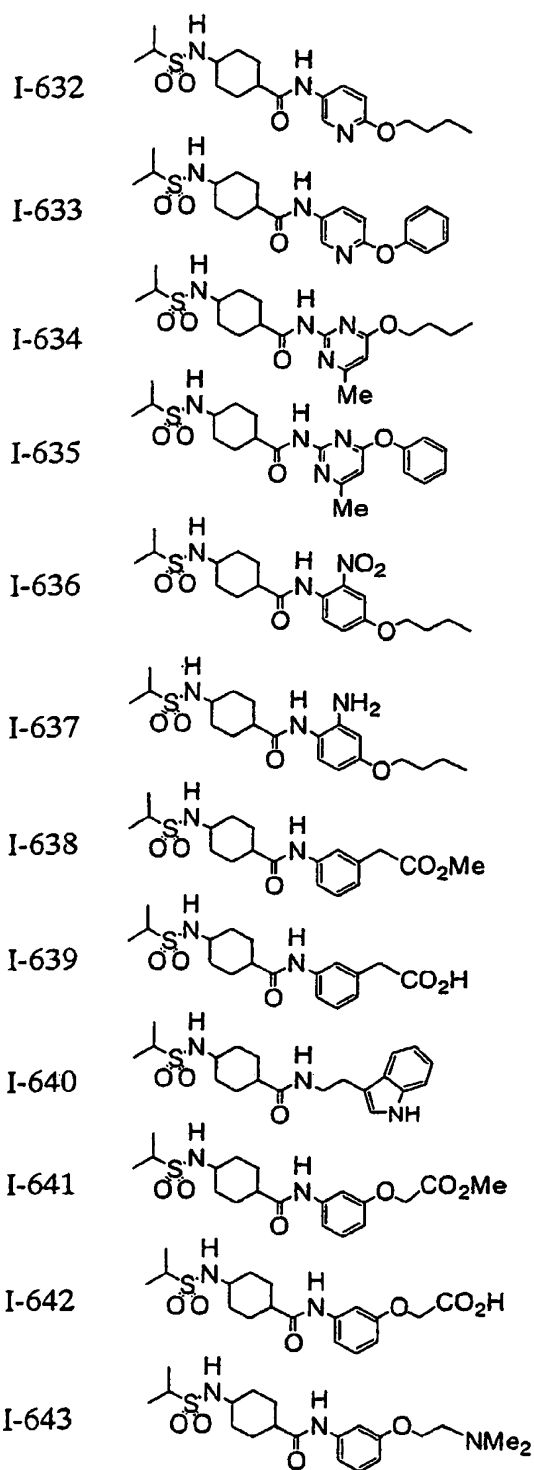


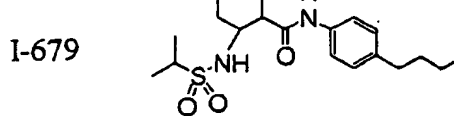
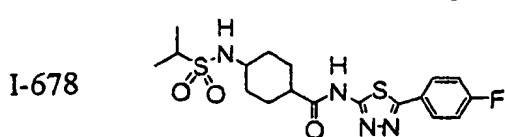
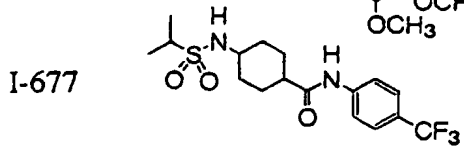
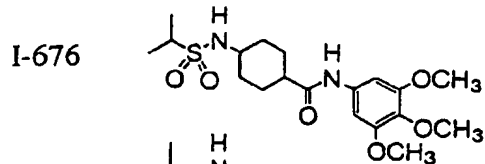
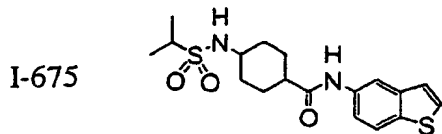
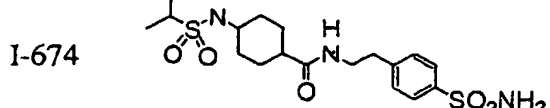
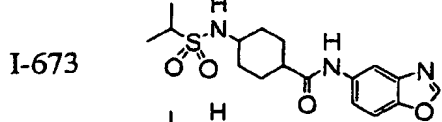
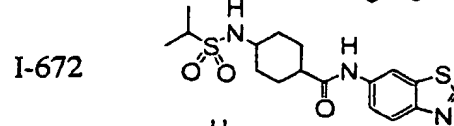
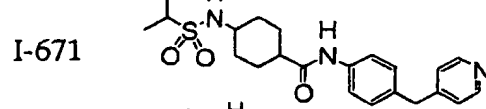
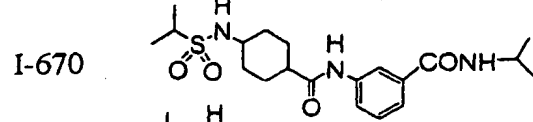
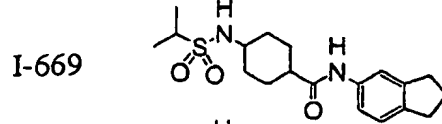
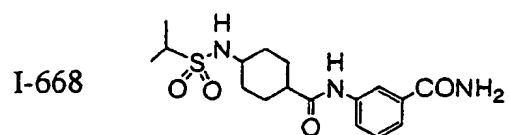
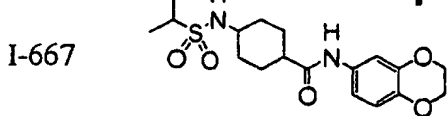
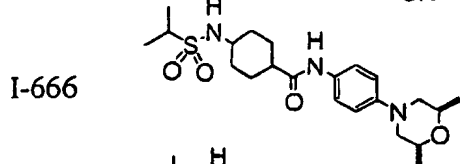
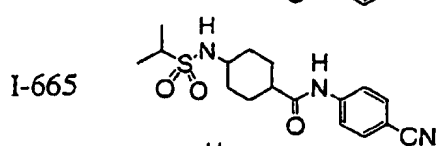
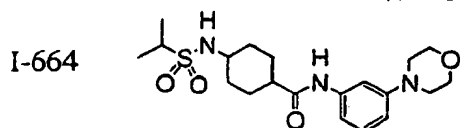
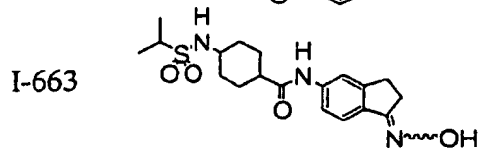
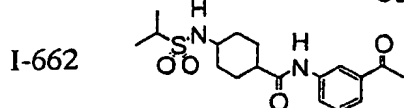
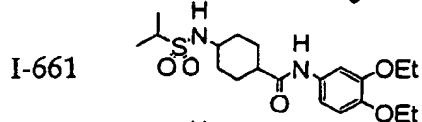
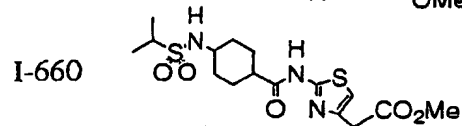
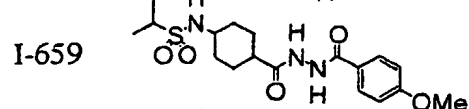
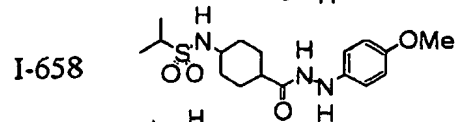
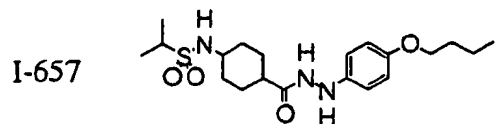
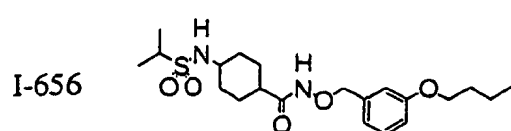




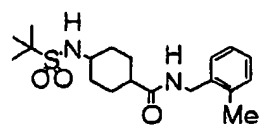




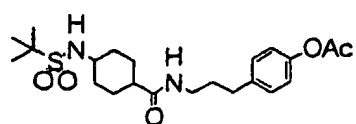




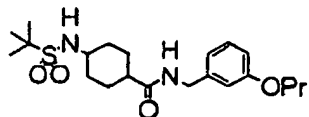
I-680



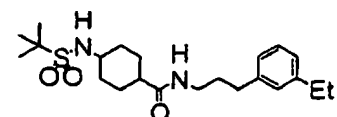
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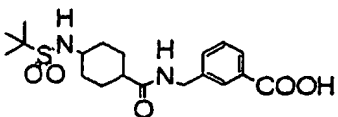
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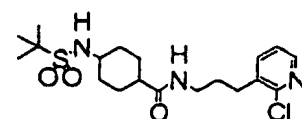
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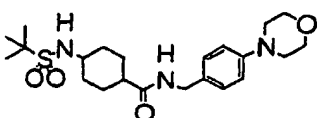
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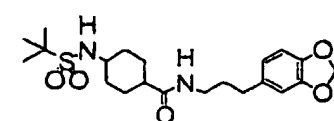
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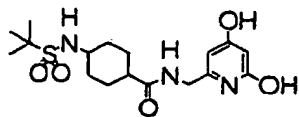
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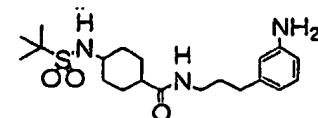
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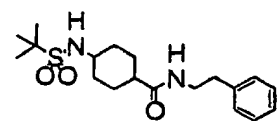
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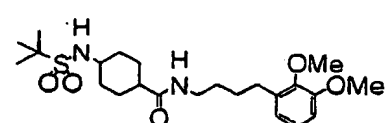
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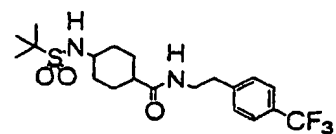
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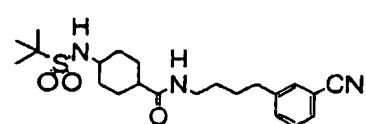
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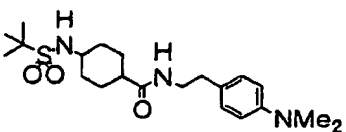
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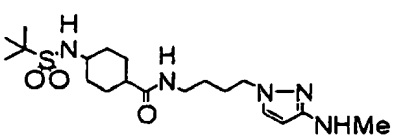
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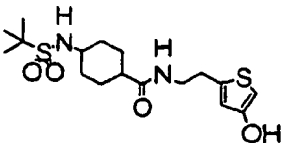
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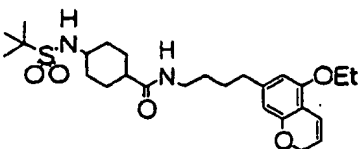
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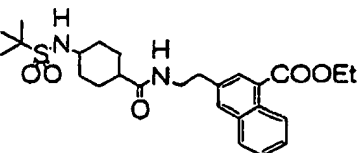
I-688



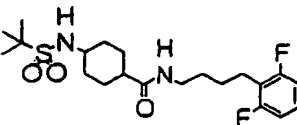
I-698

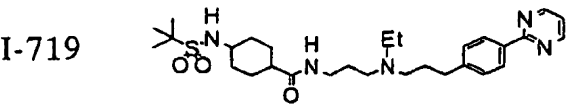
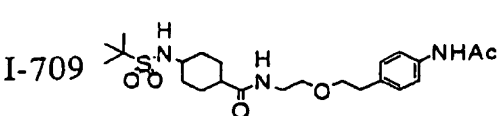
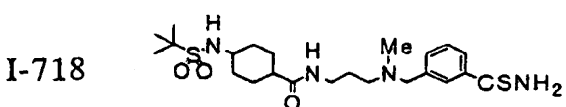
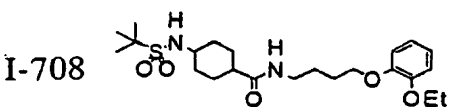
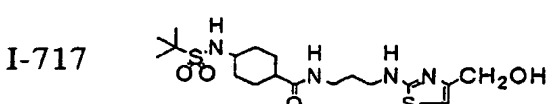
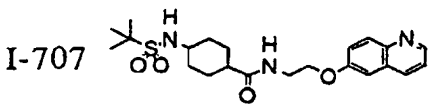
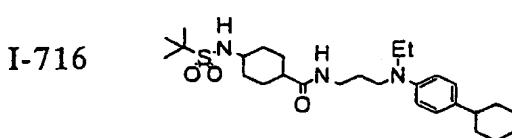
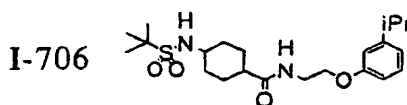
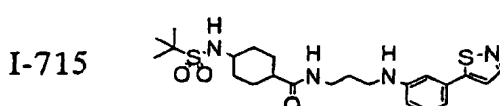
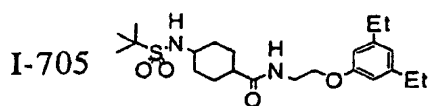
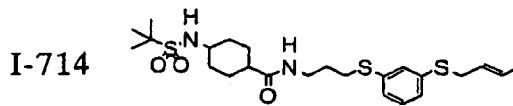
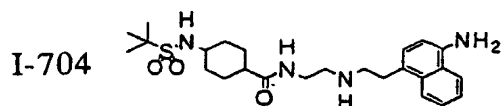
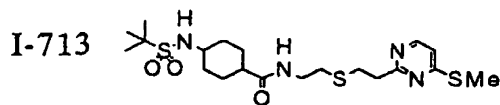
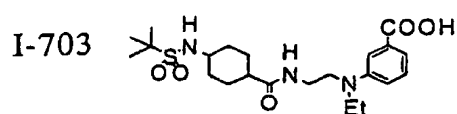
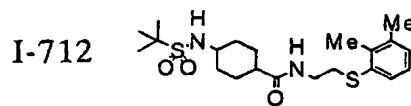
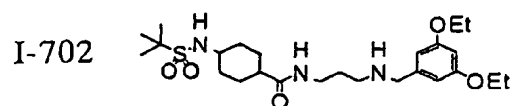
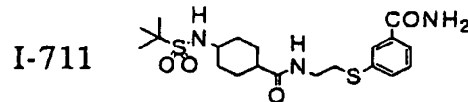
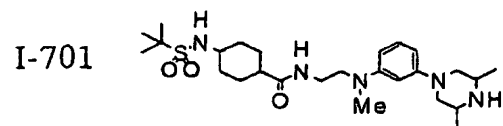
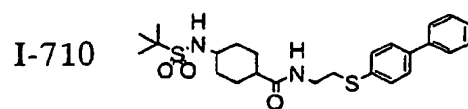
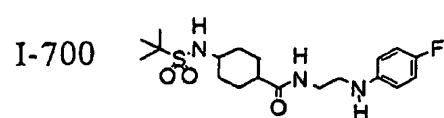


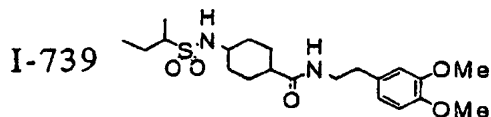
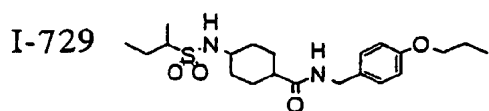
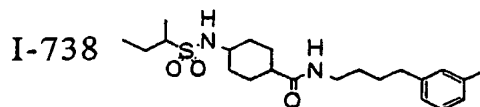
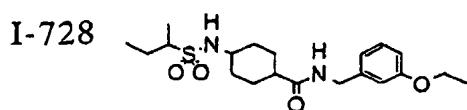
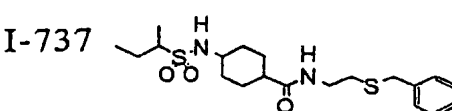
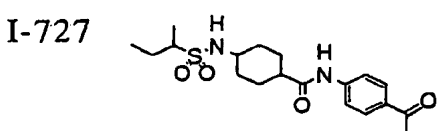
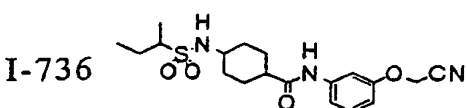
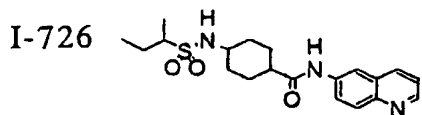
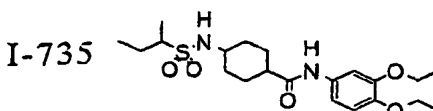
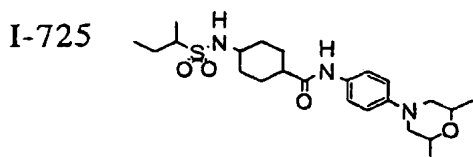
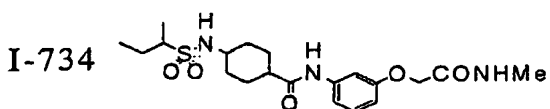
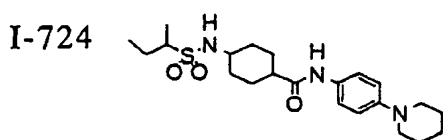
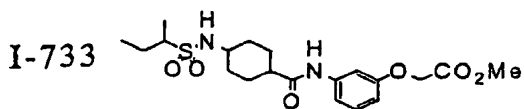
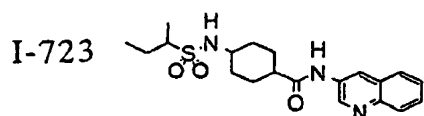
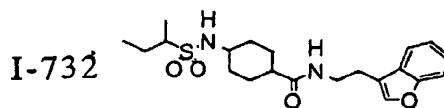
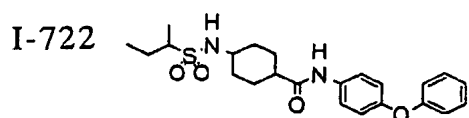
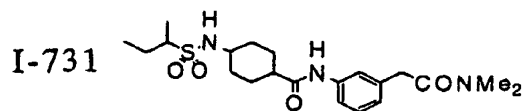
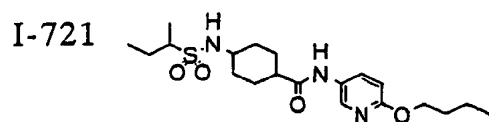
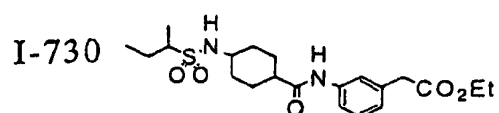
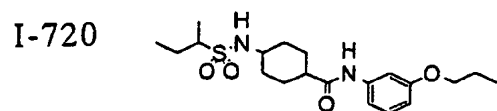
I-689

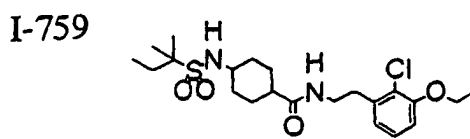
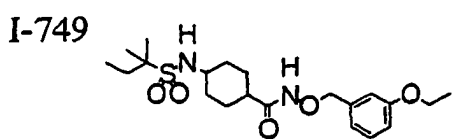
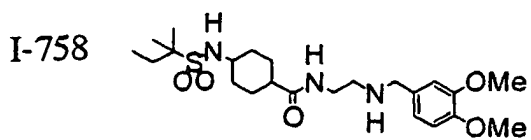
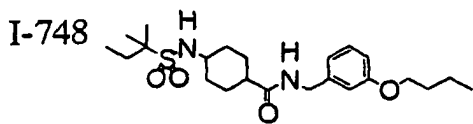
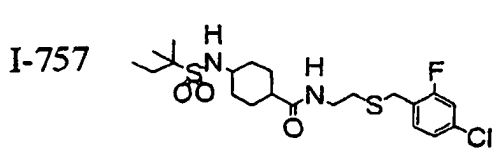
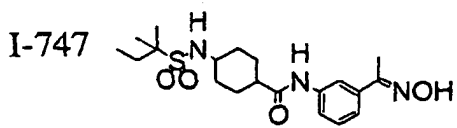
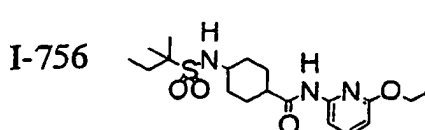
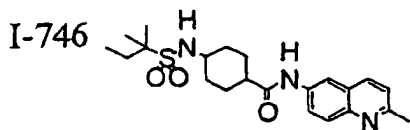
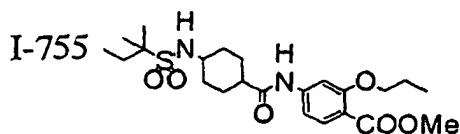
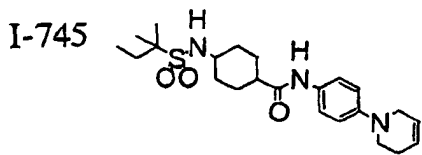
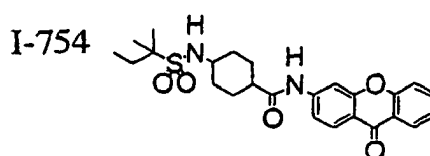
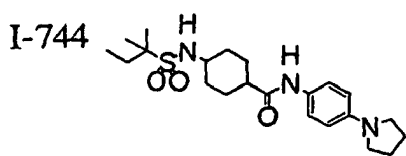
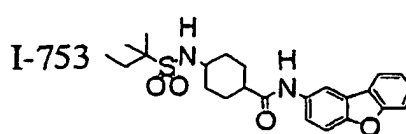
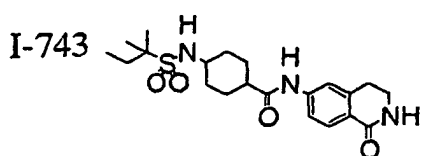
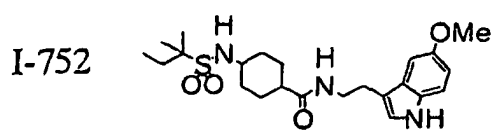
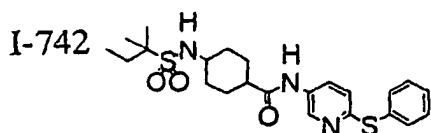
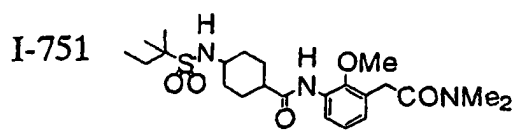
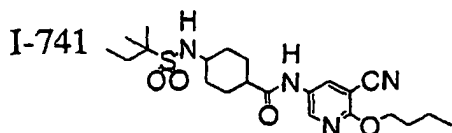
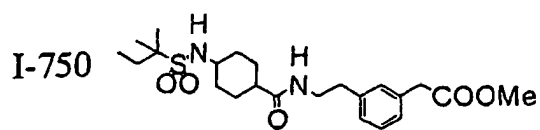
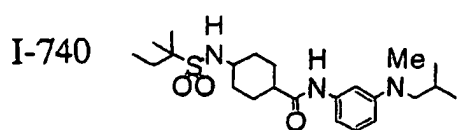


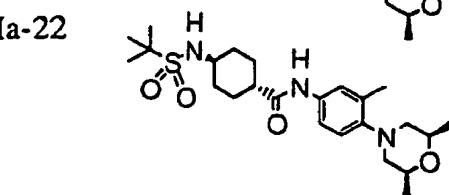
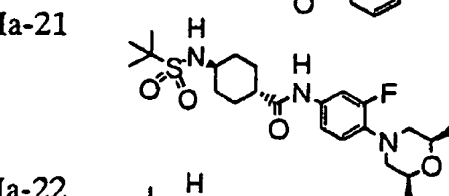
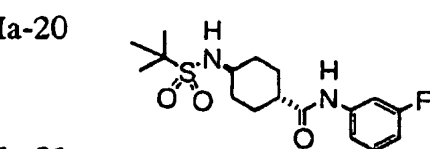
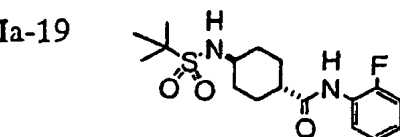
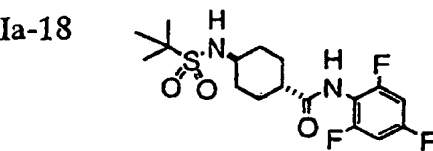
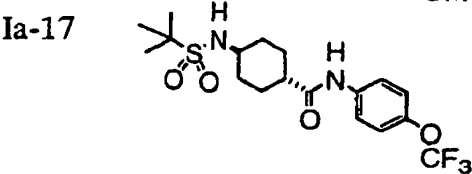
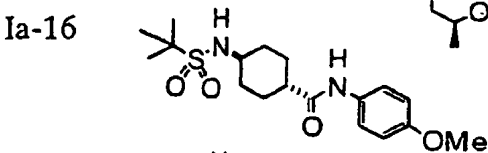
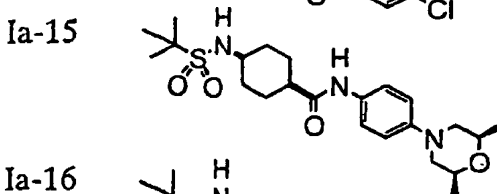
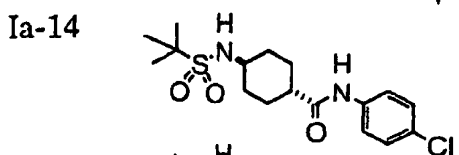
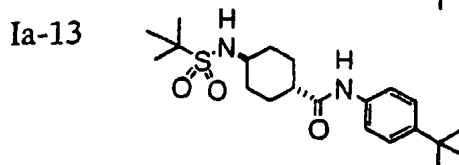
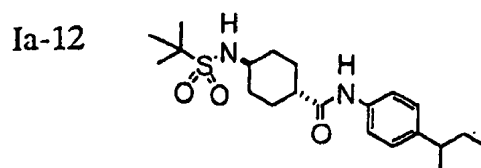
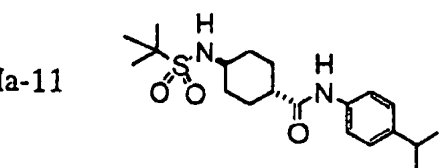
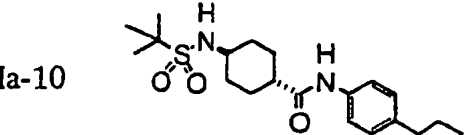
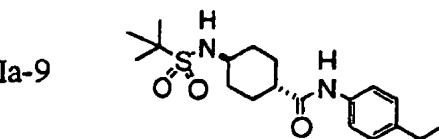
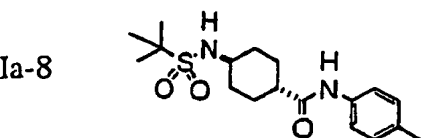
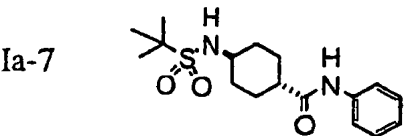
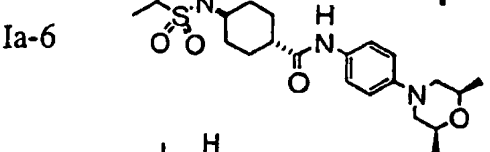
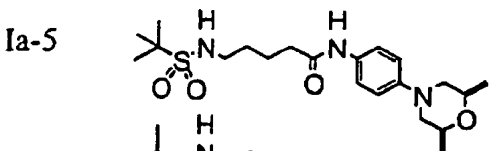
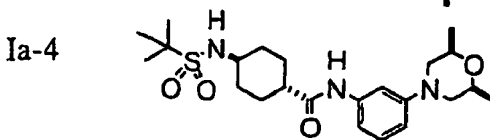
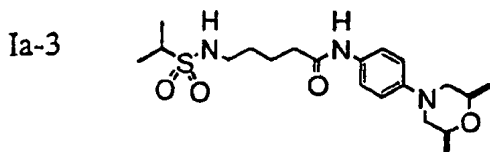
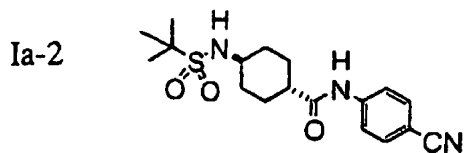
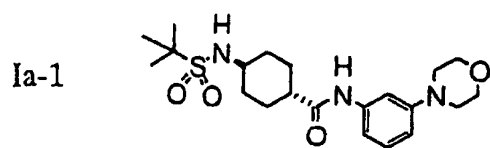
I-699

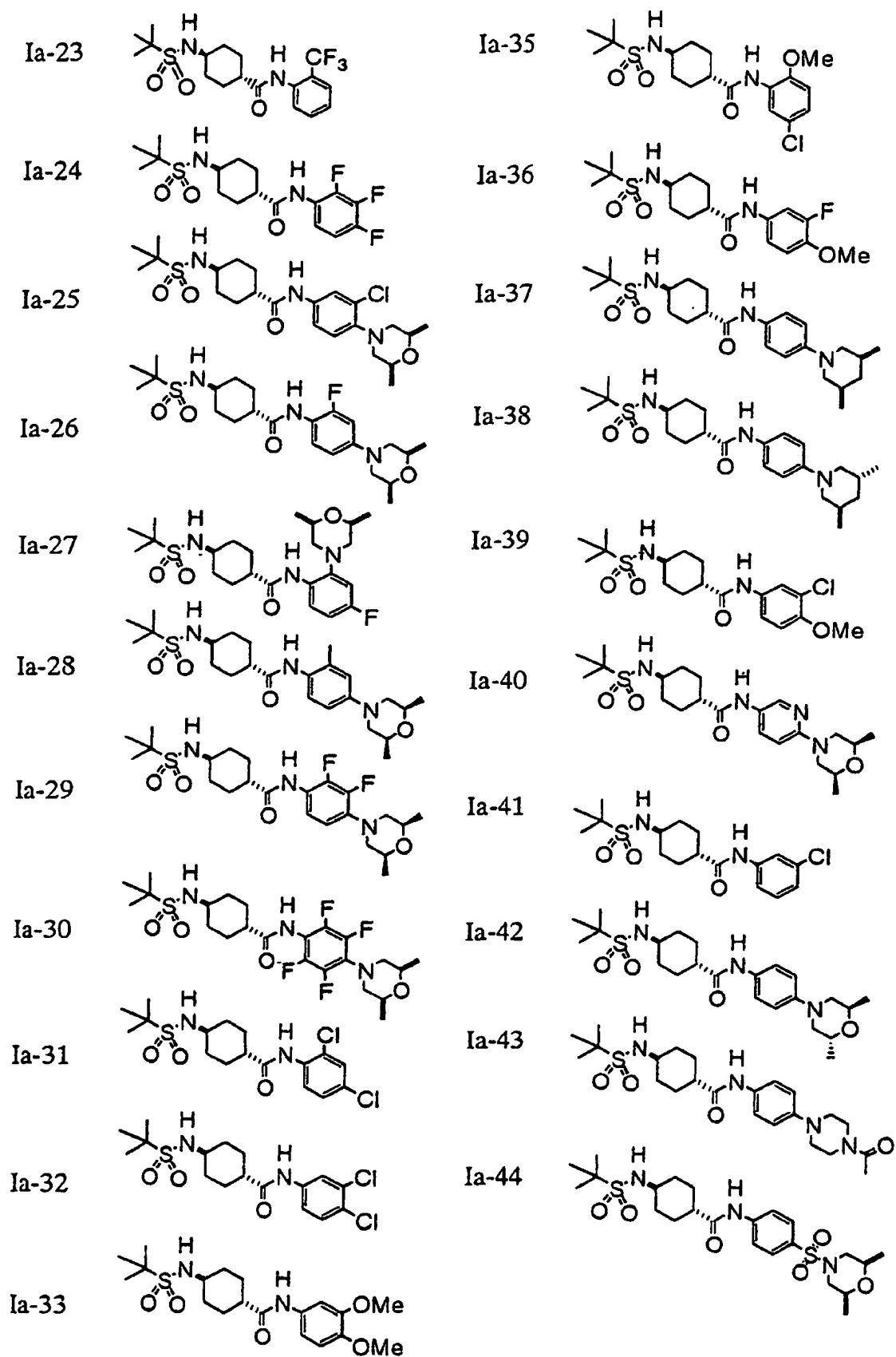


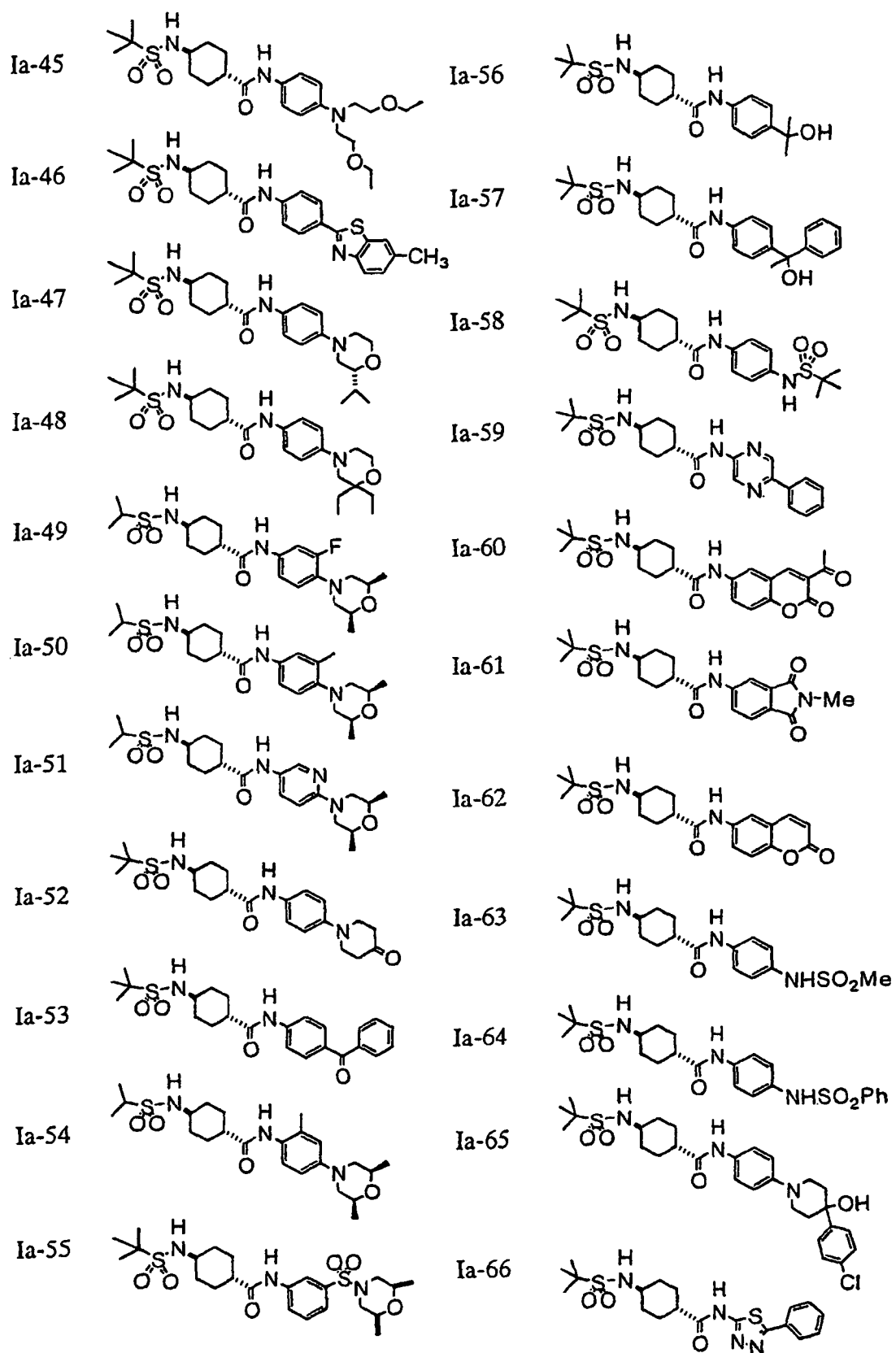


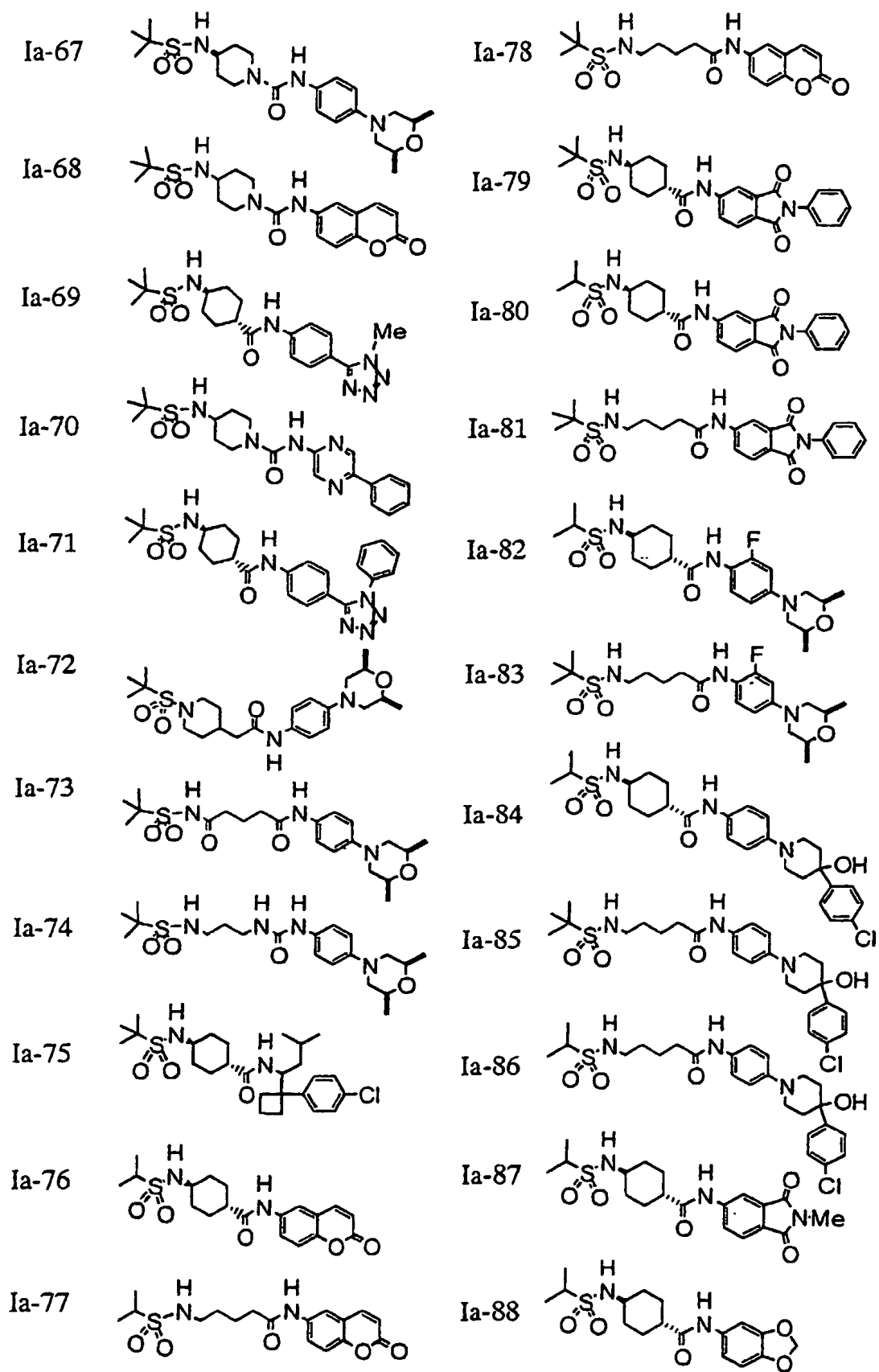




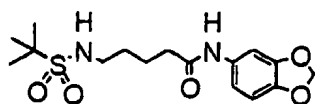




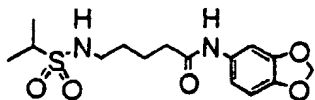




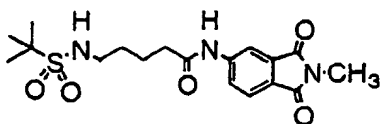
Ia-89



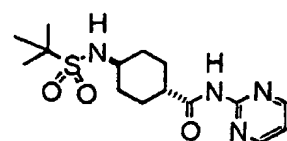
Ia-90



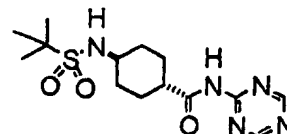
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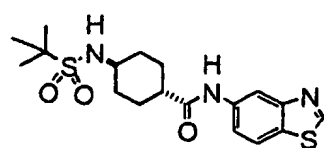
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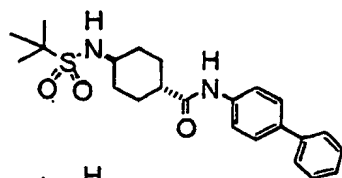
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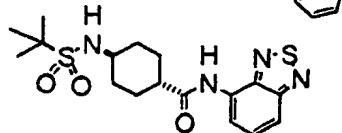
Ia-106



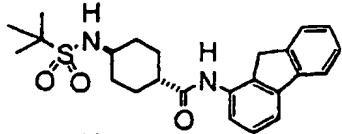
Ia-107



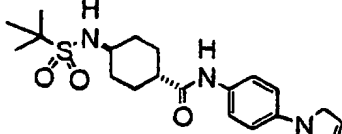
Ia-108



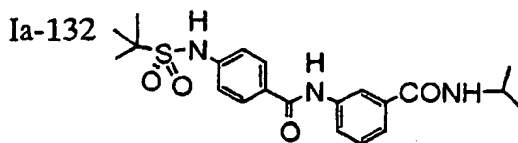
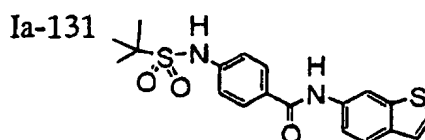
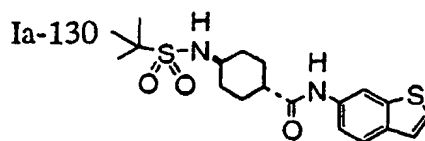
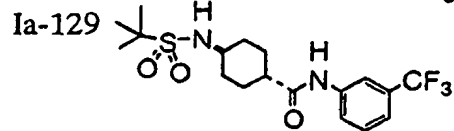
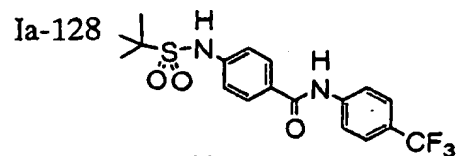
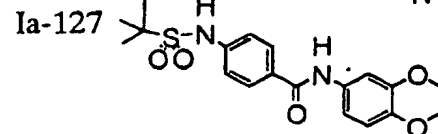
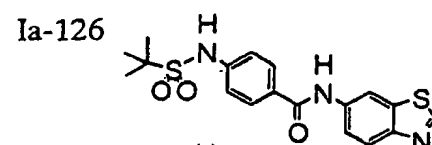
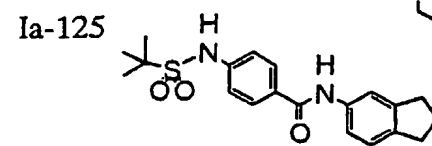
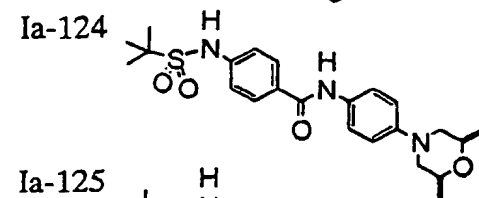
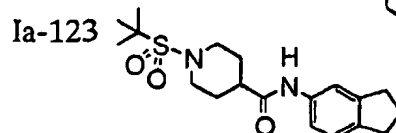
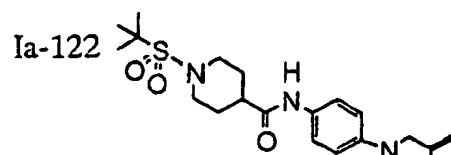
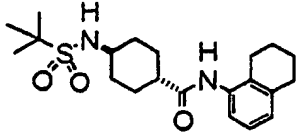
Ia-109

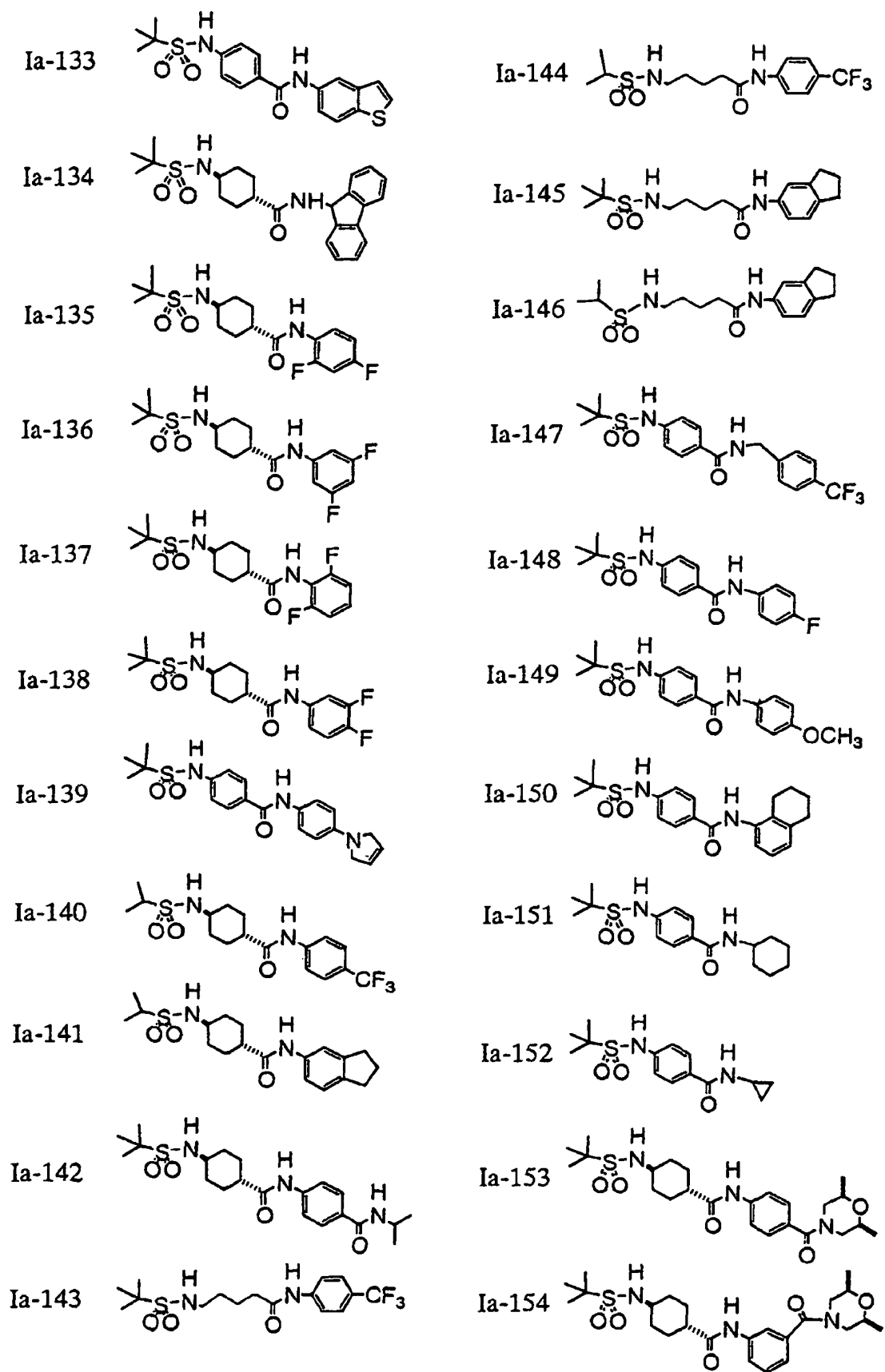


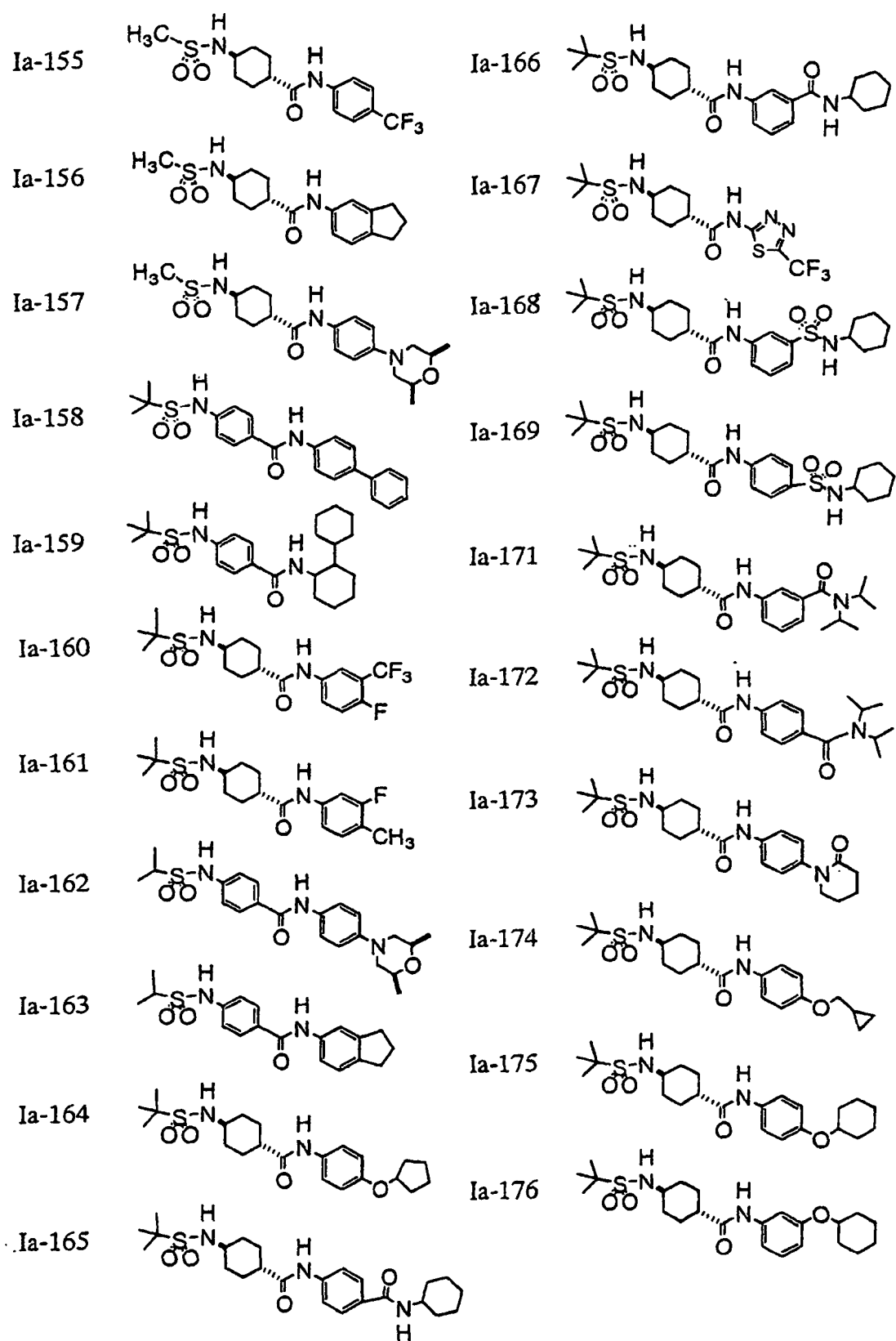
Ia-110

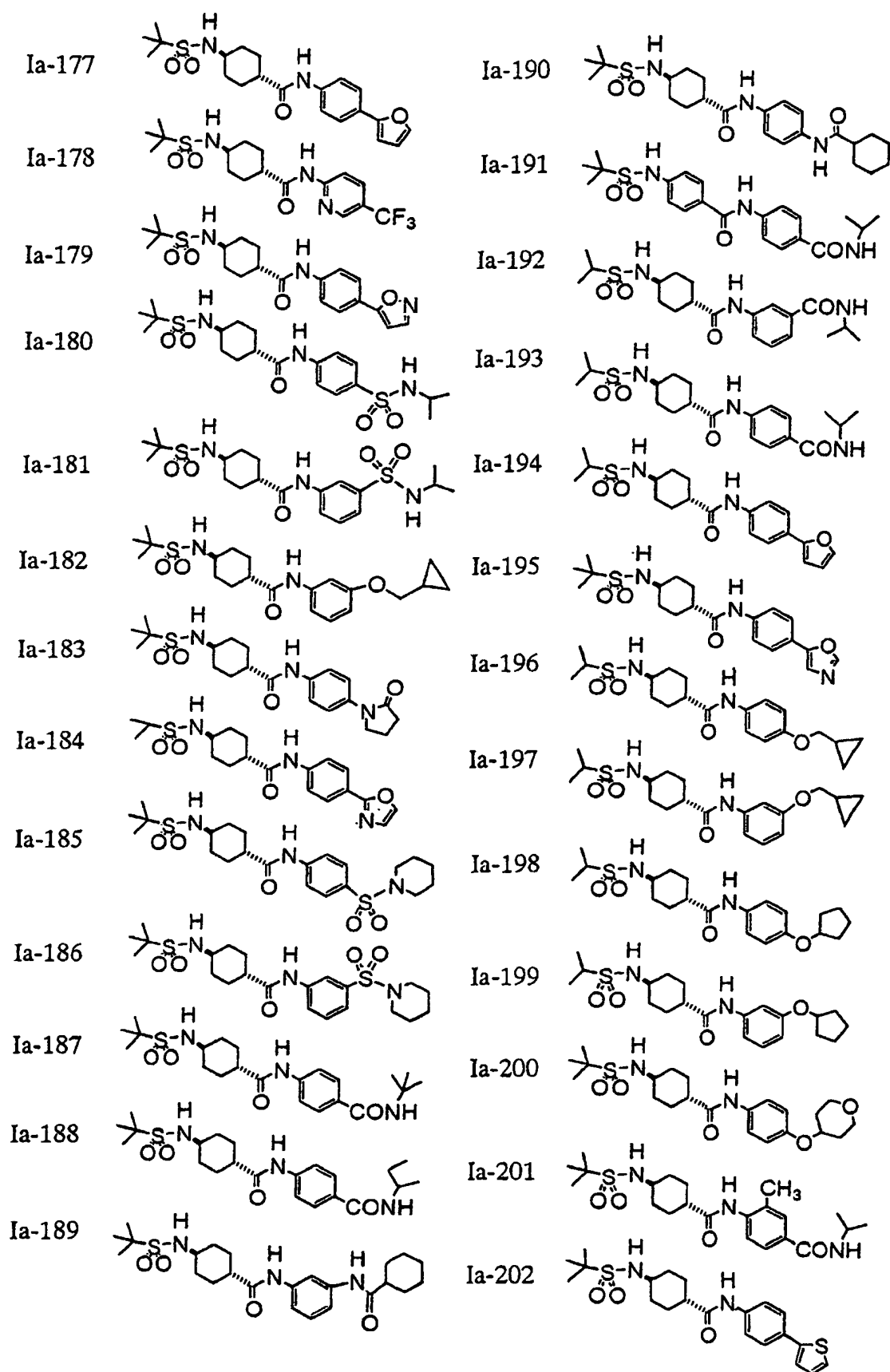


Ia-111

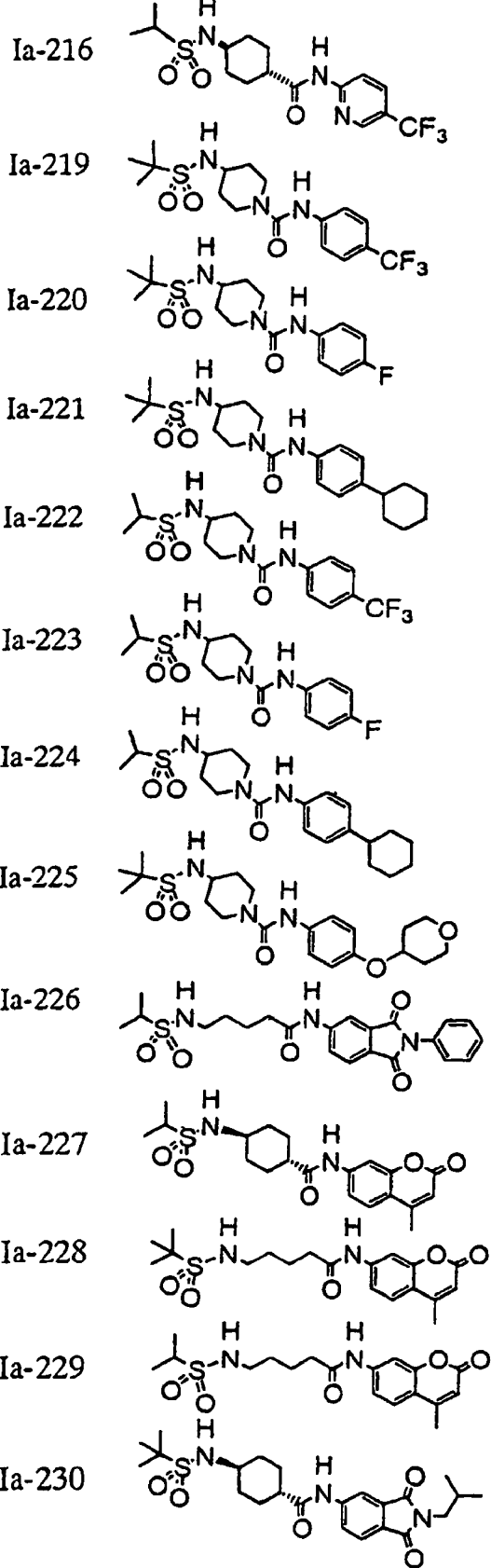


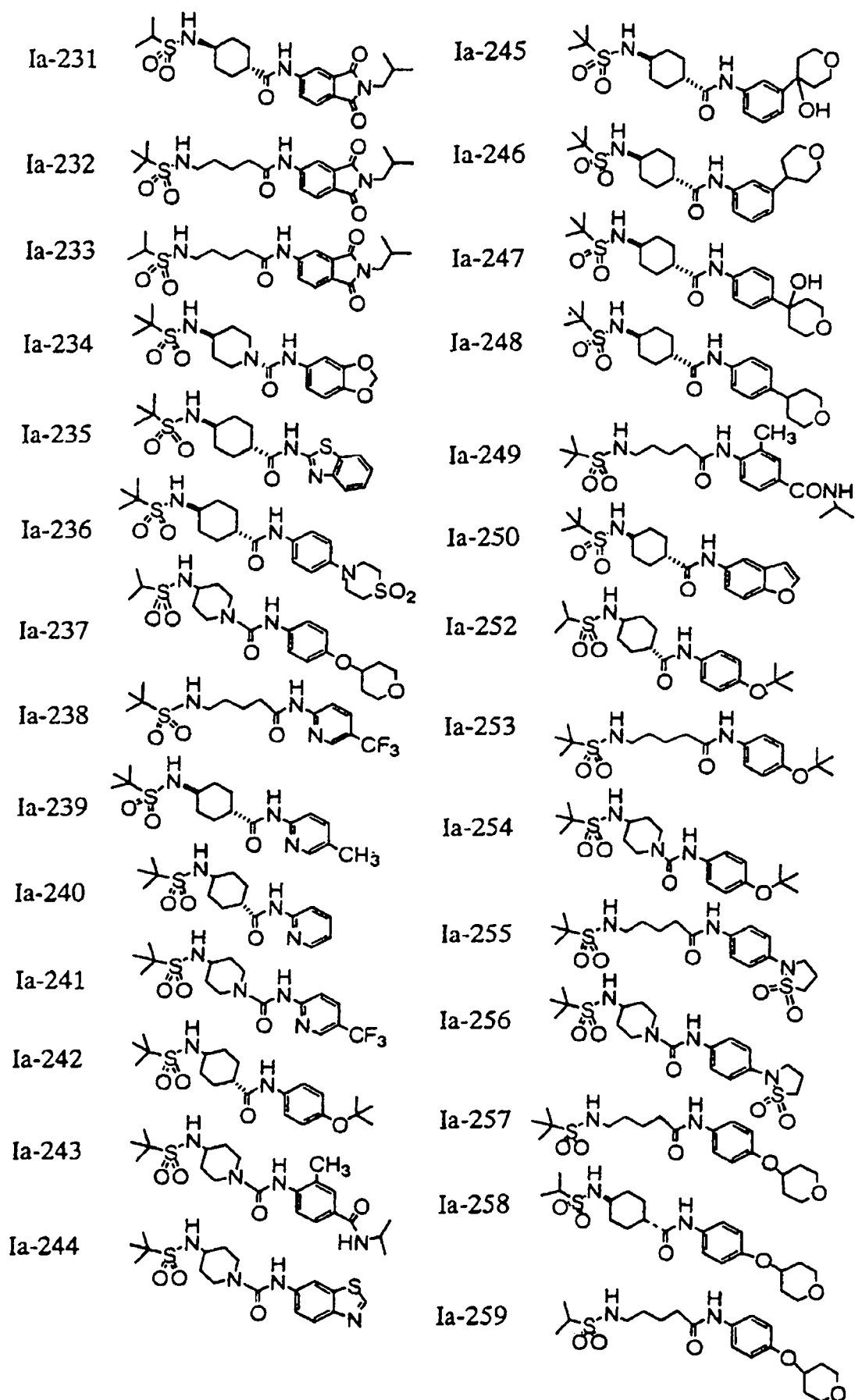


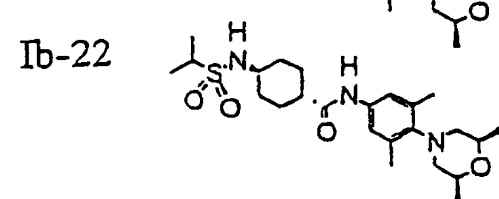
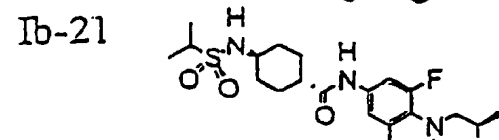
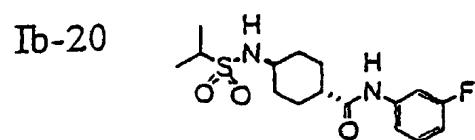
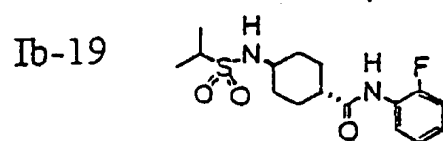
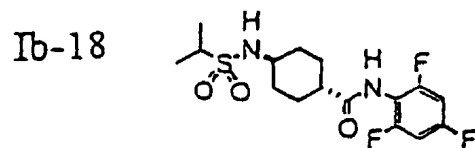
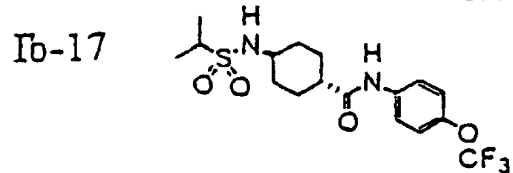
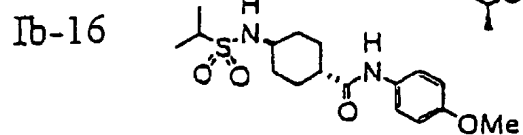
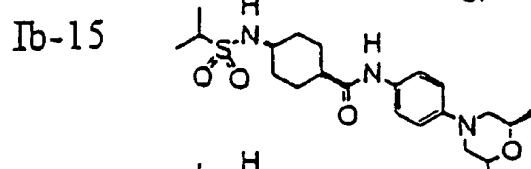
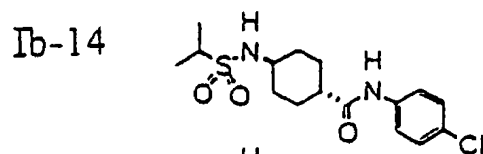
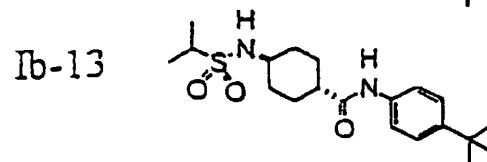
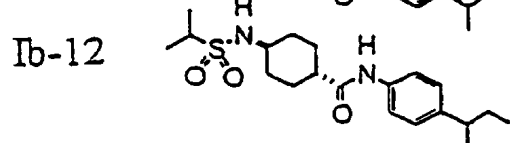
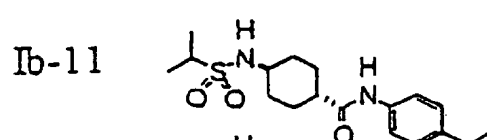
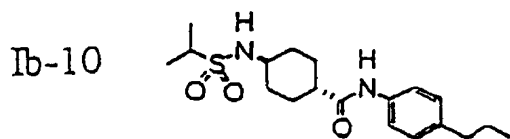
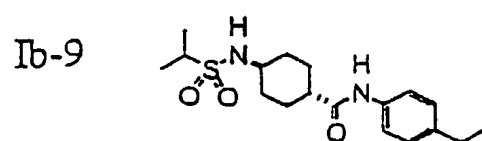
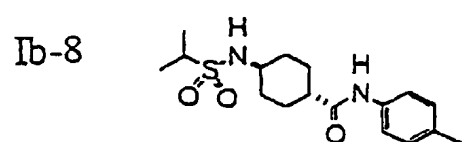
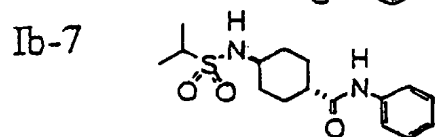
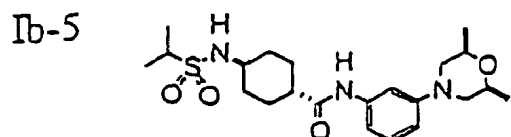
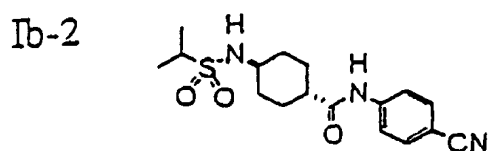
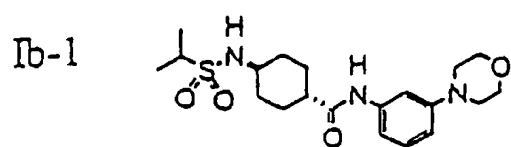


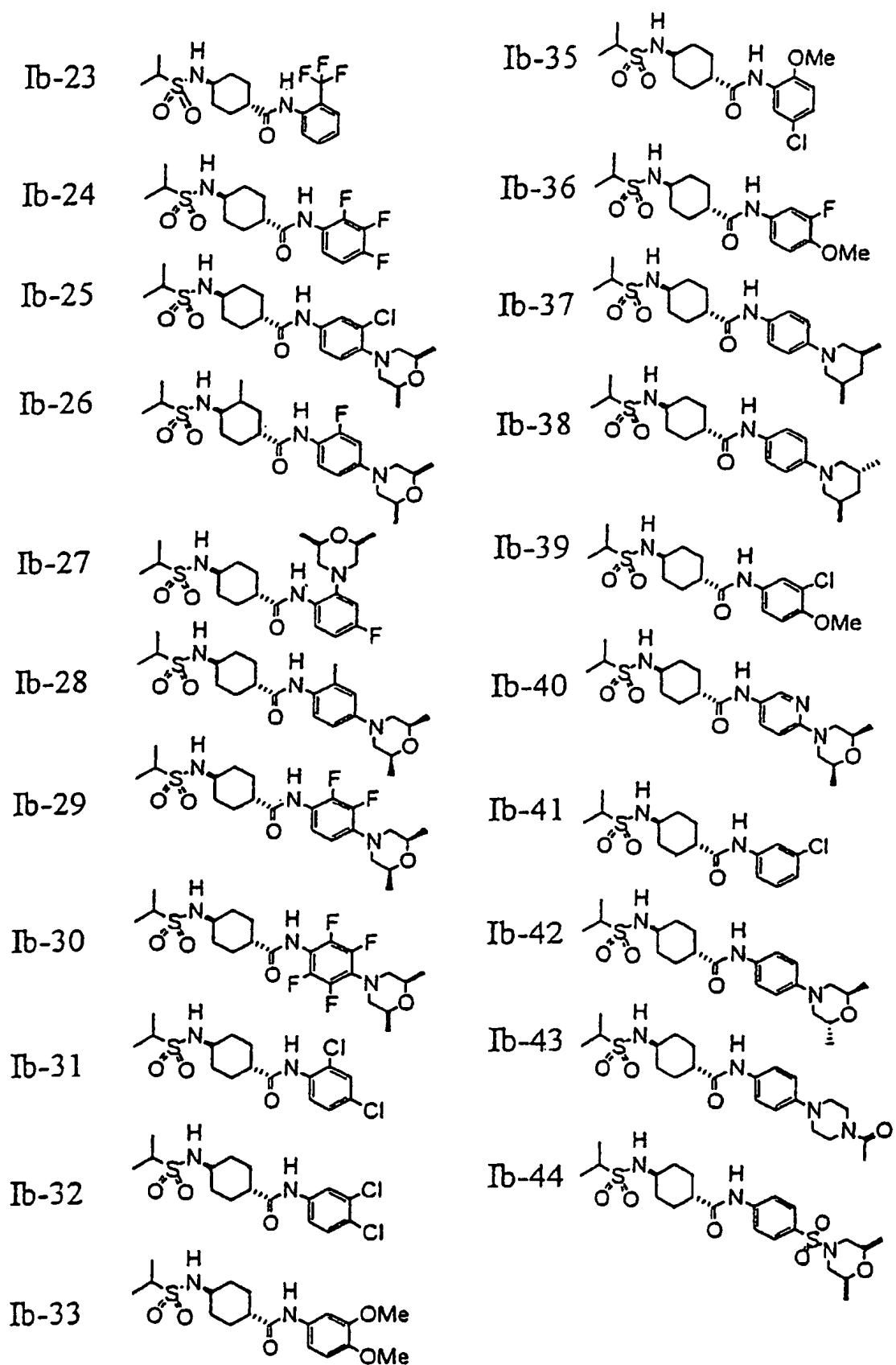


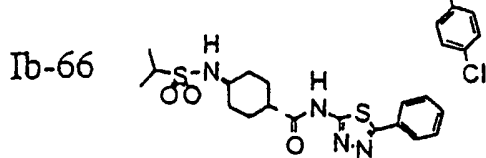
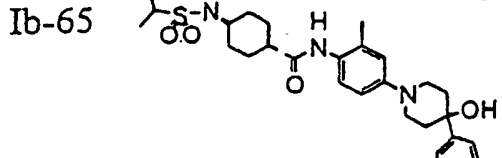
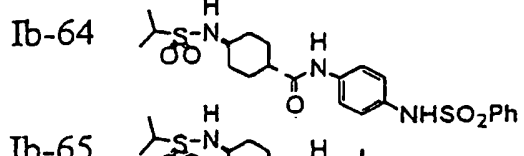
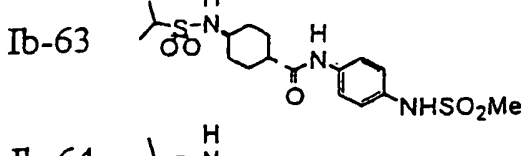
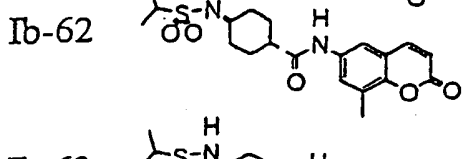
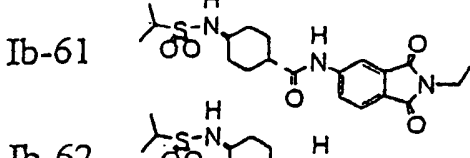
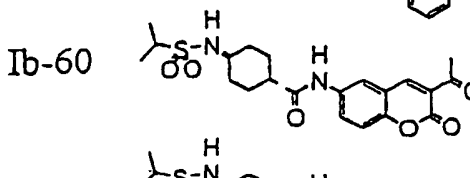
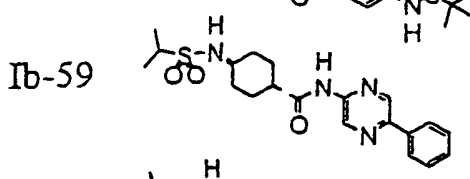
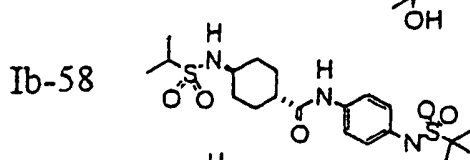
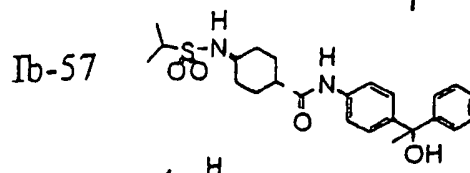
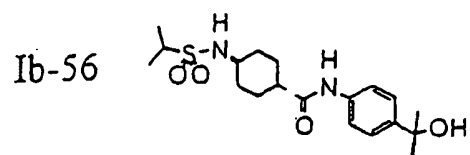
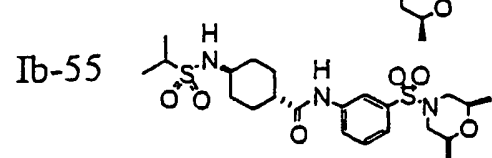
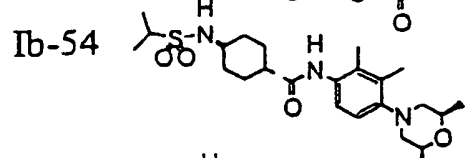
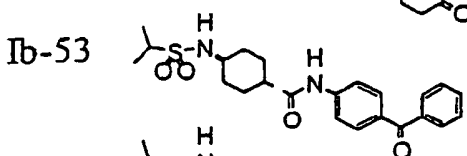
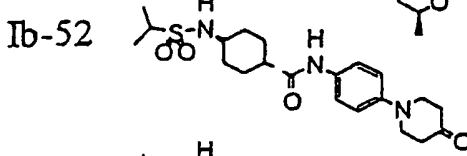
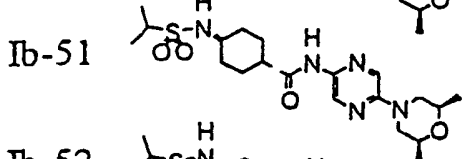
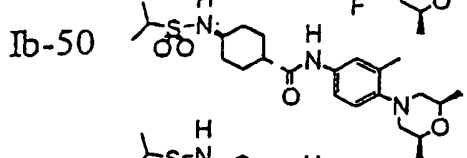
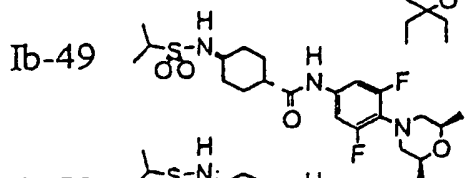
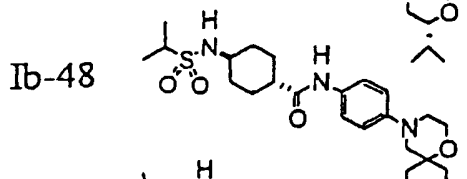
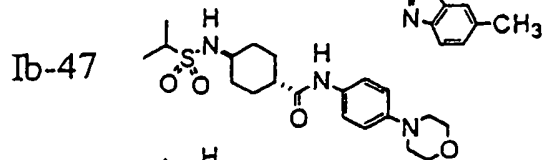
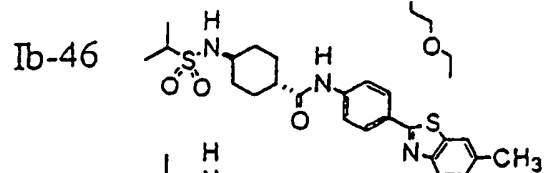
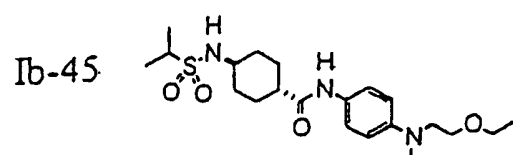
Nota: el Ia-178 es un compuesto de esta invención

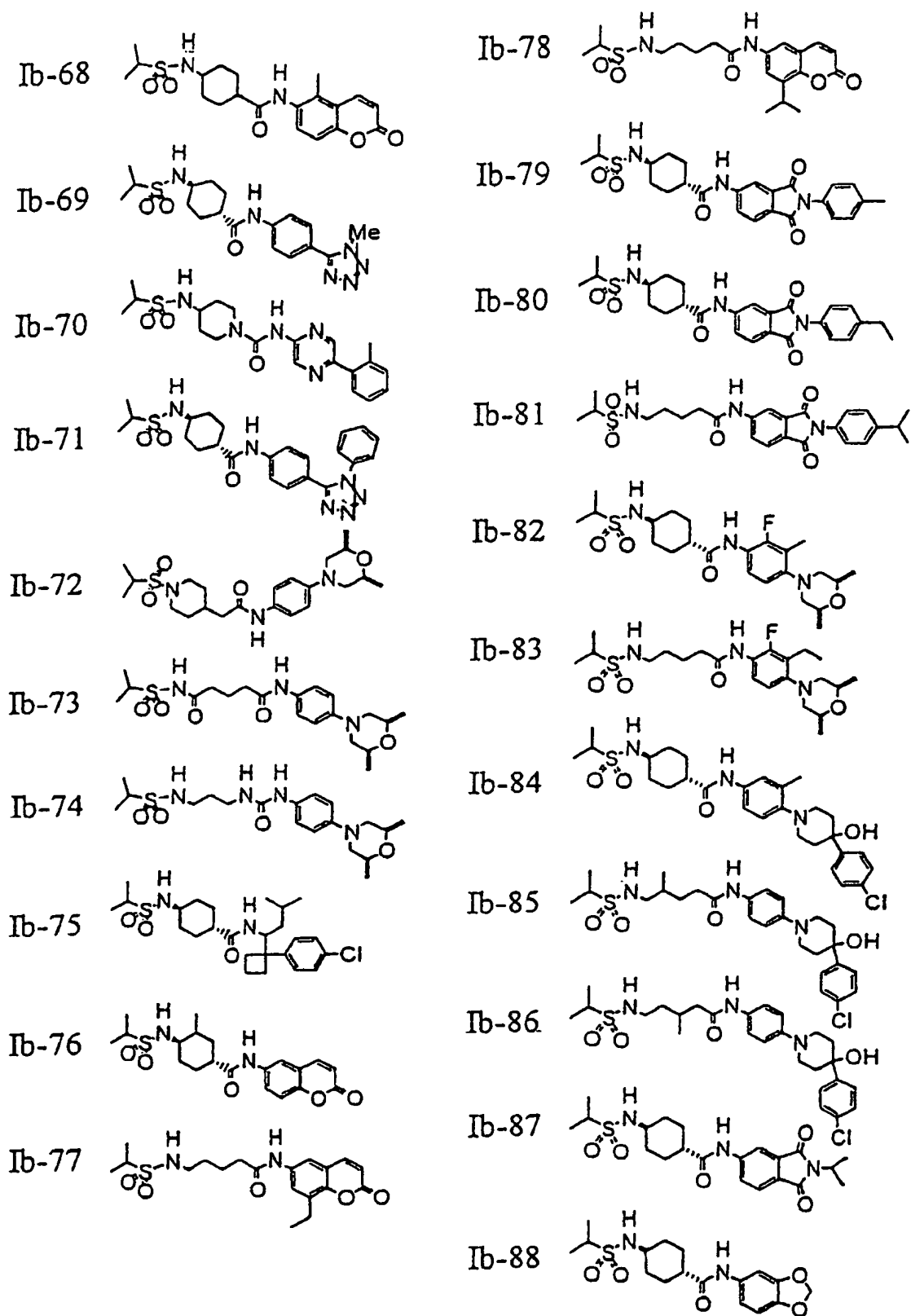


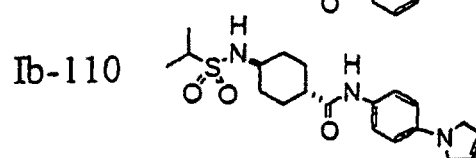
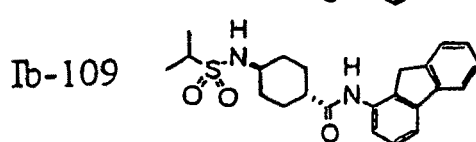
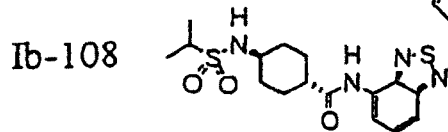
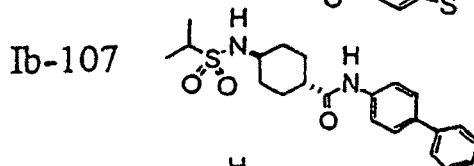
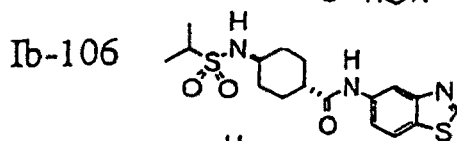
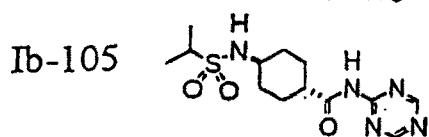
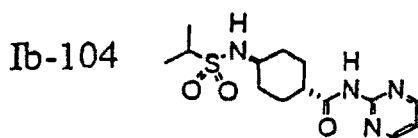
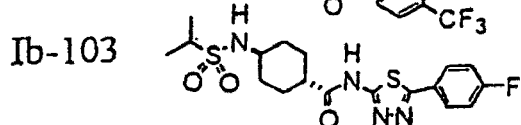
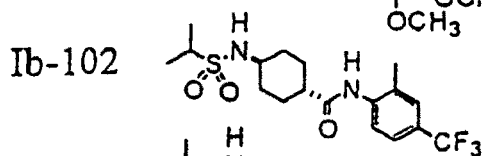
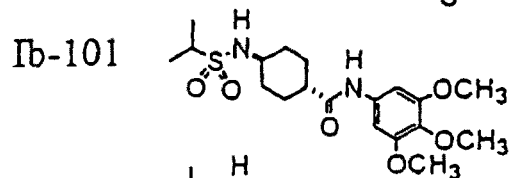
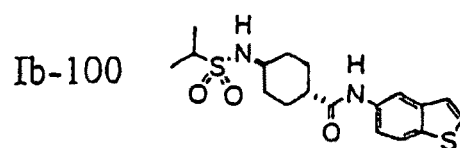
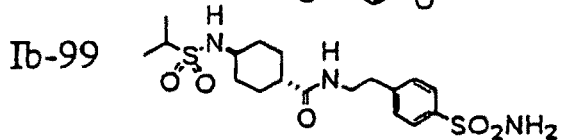
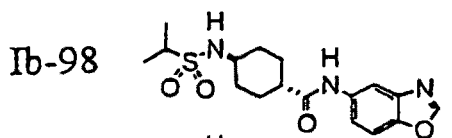
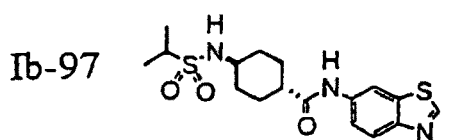
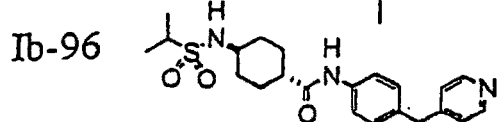
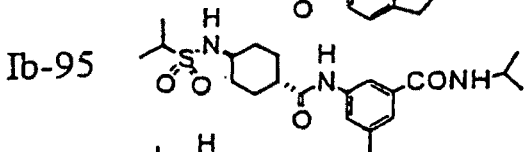
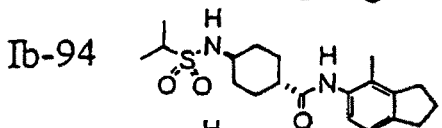
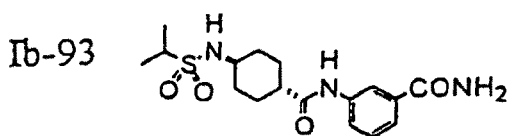
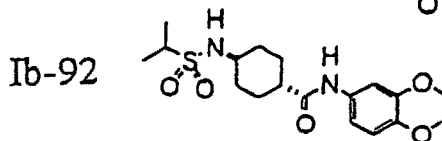
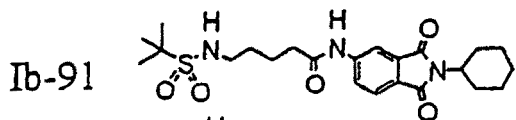
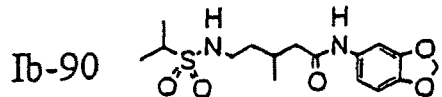
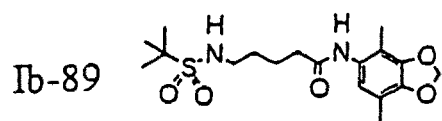


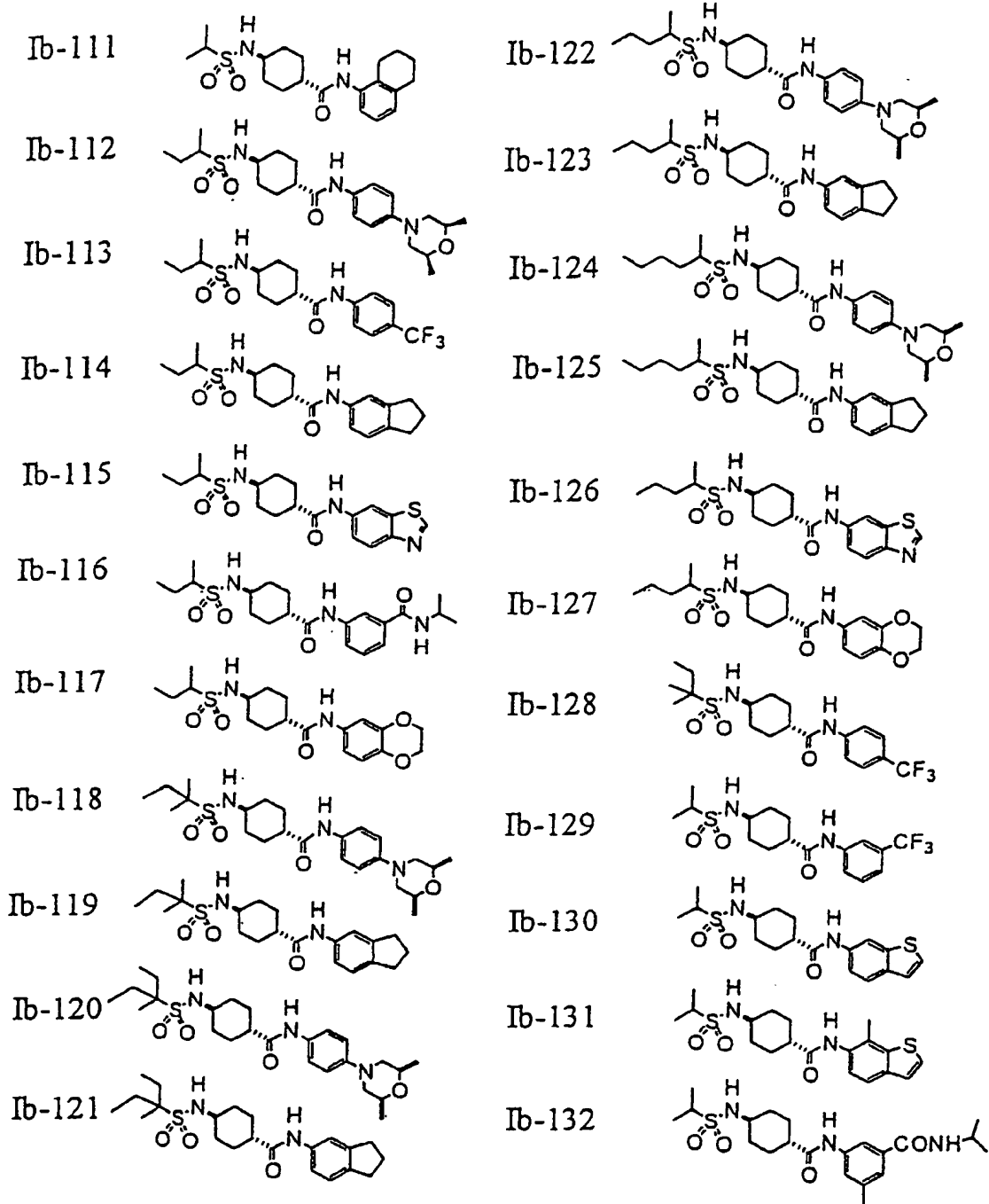


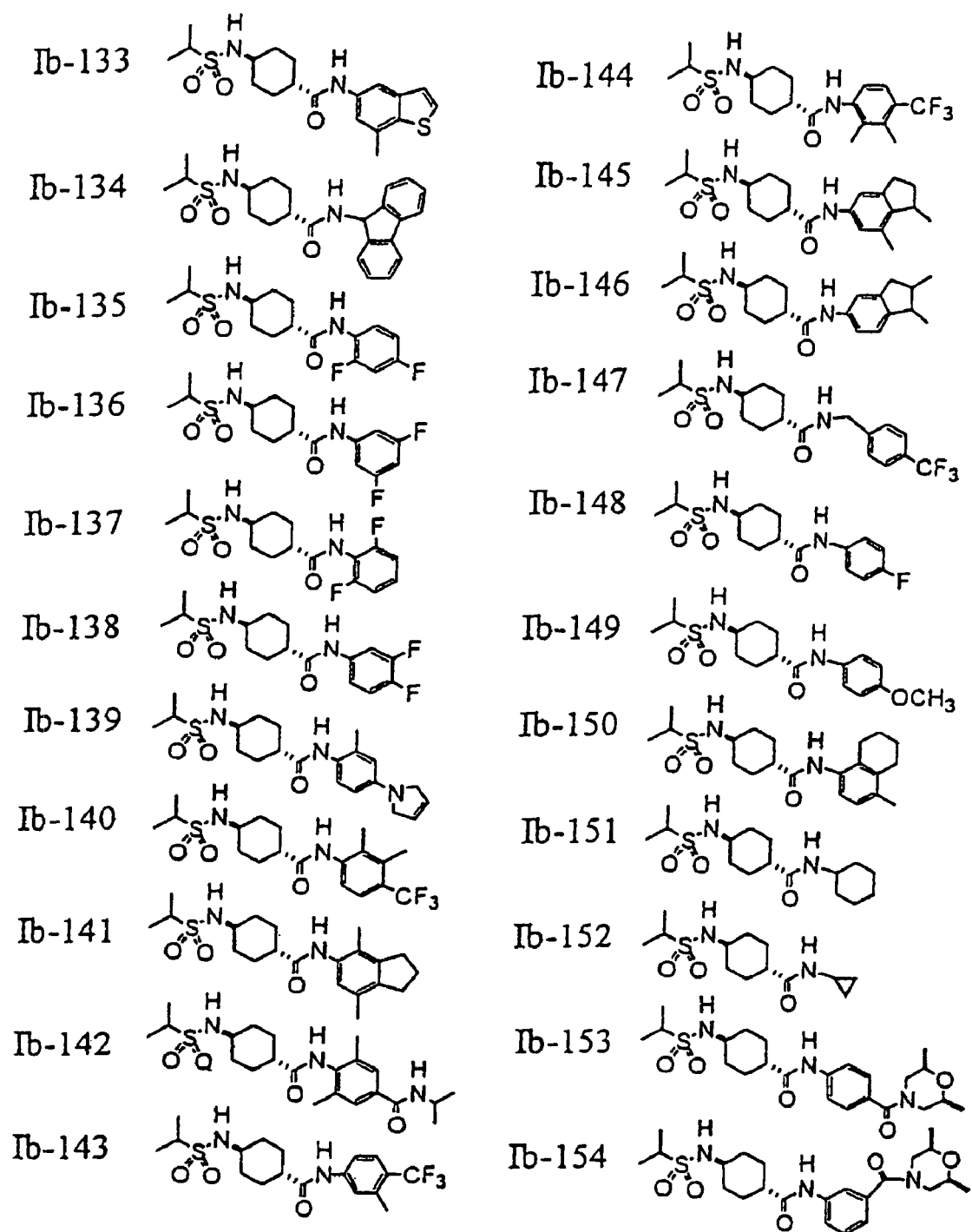


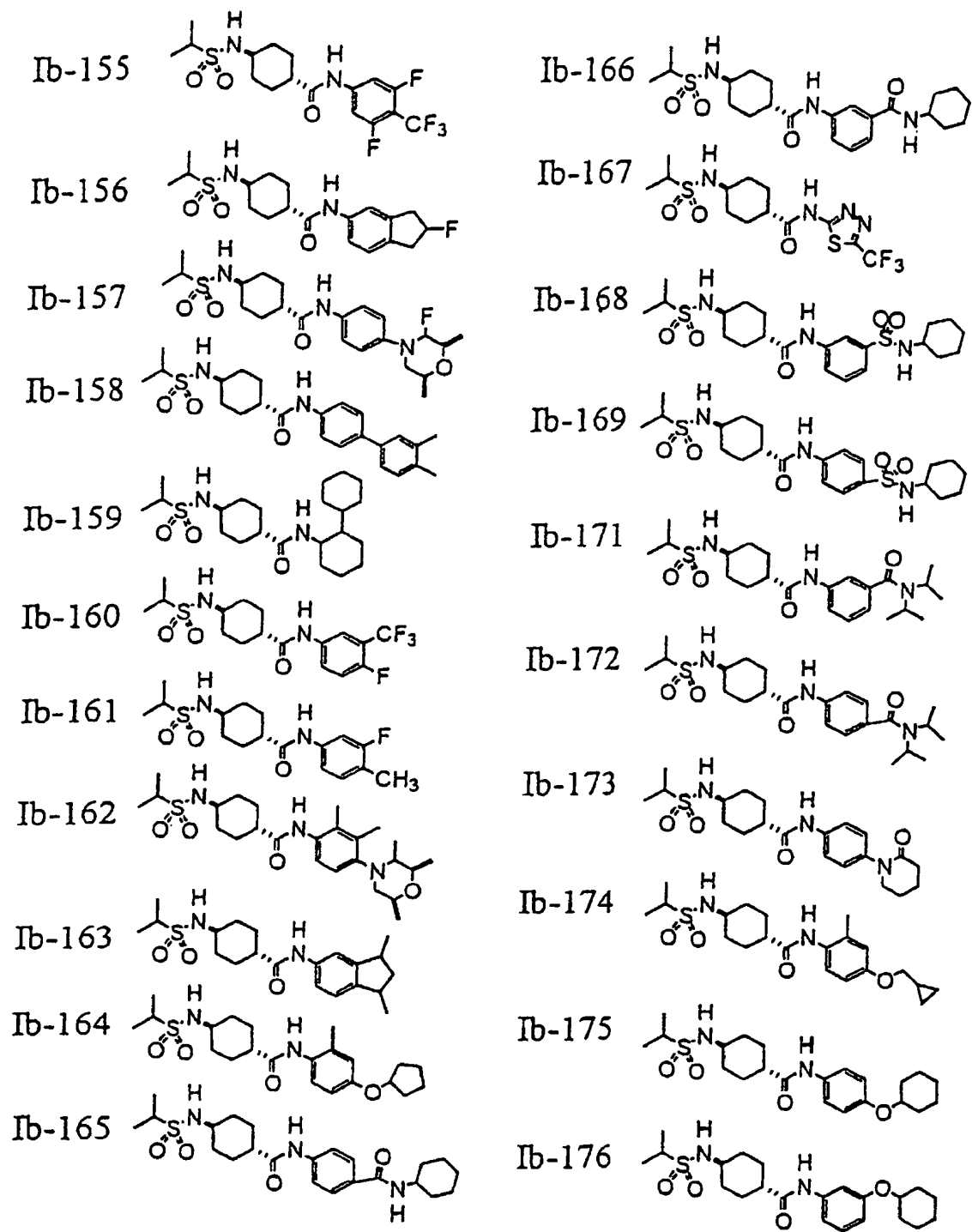


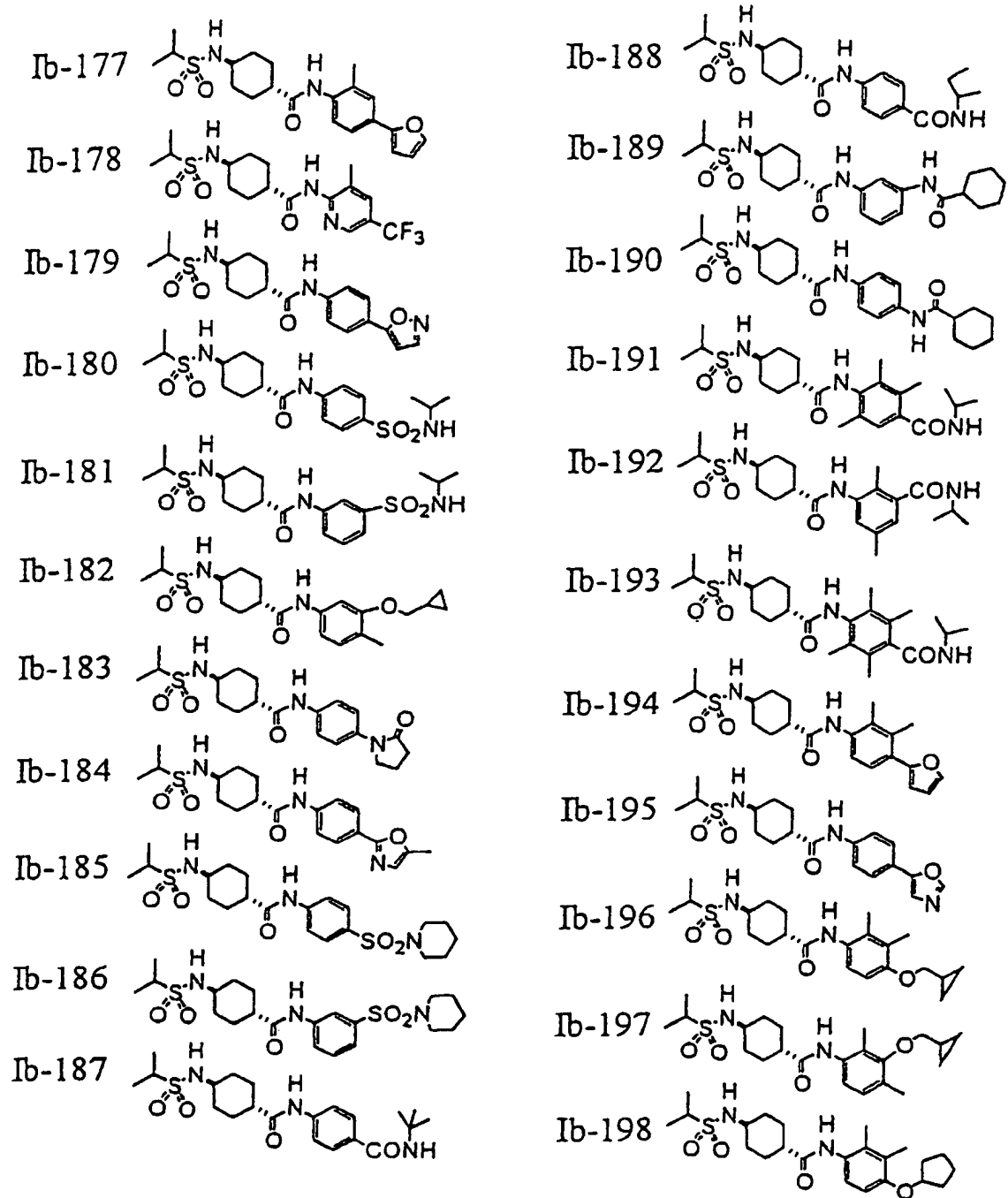


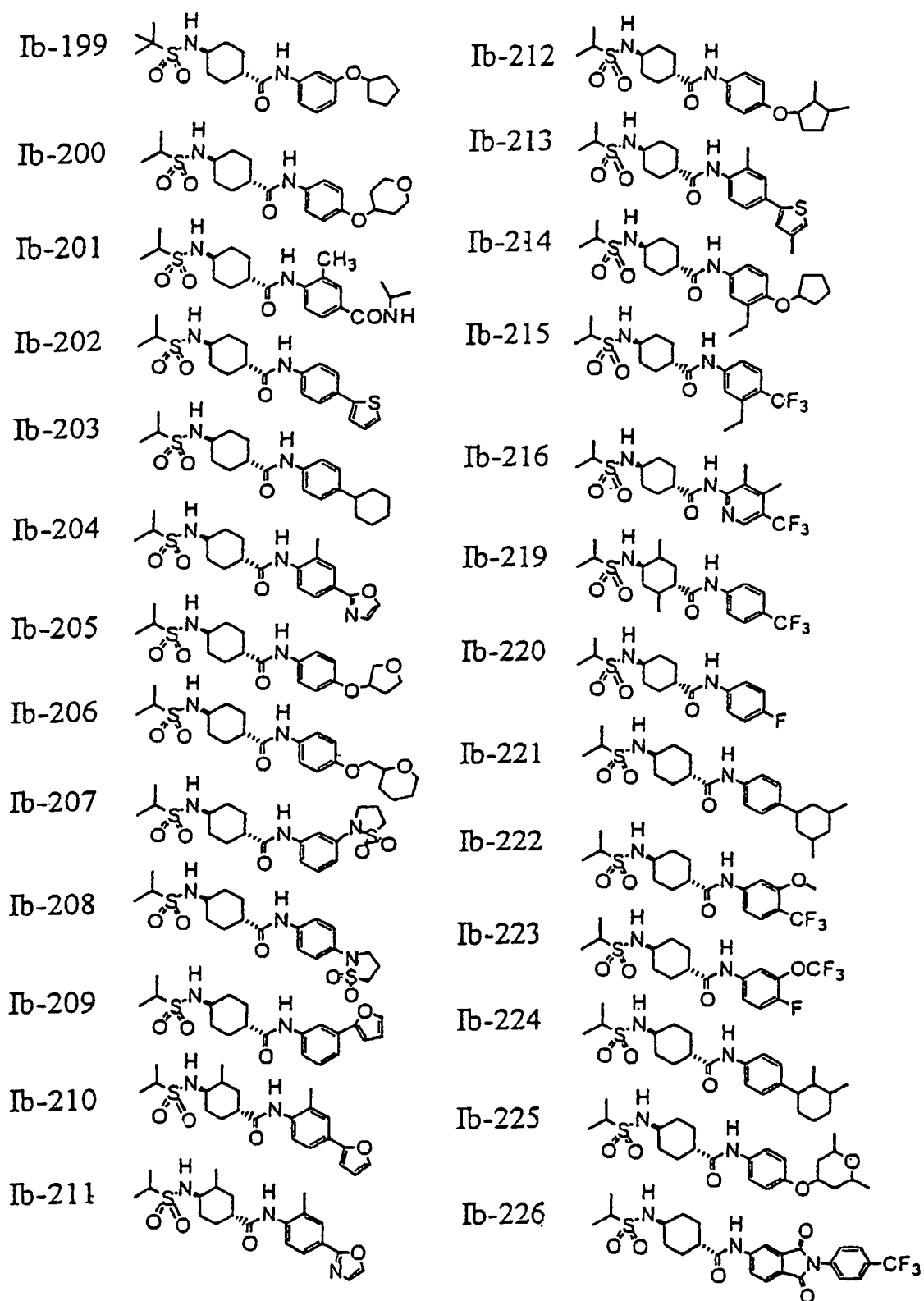


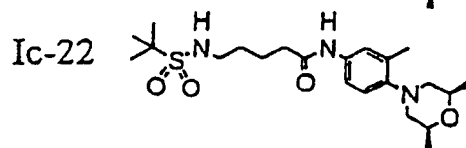
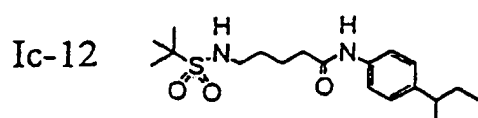
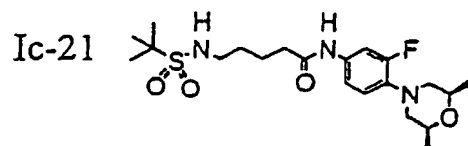
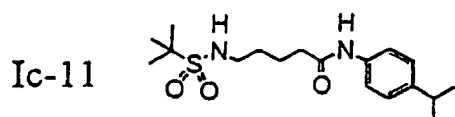
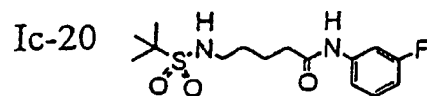
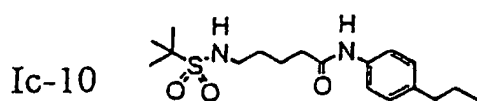
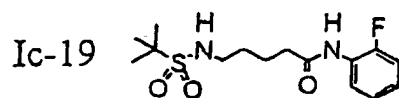
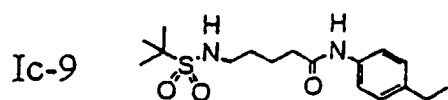
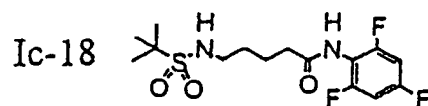
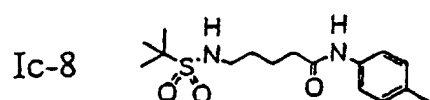
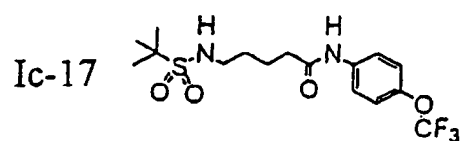
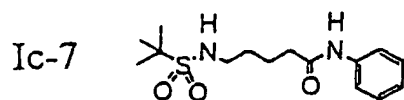
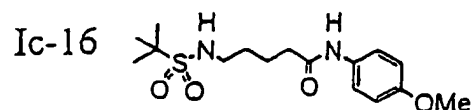
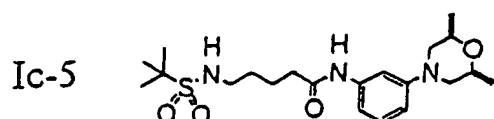
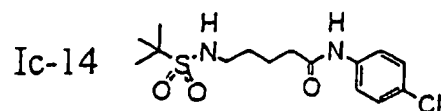
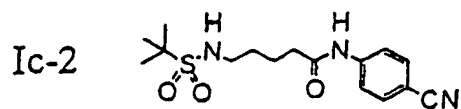
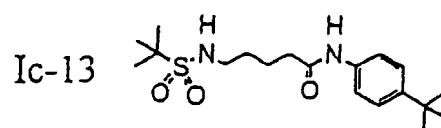
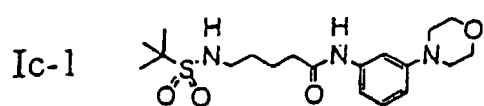


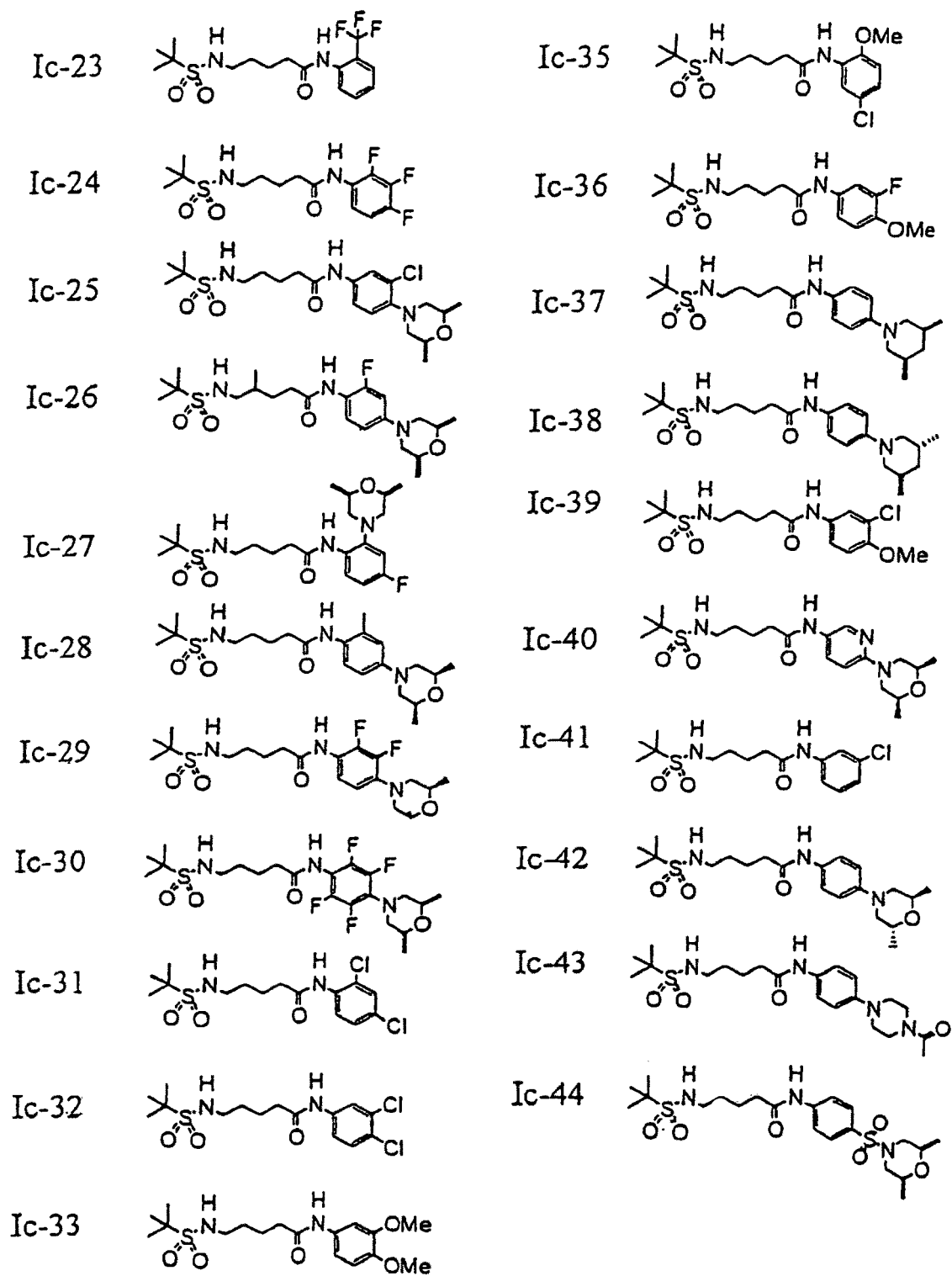


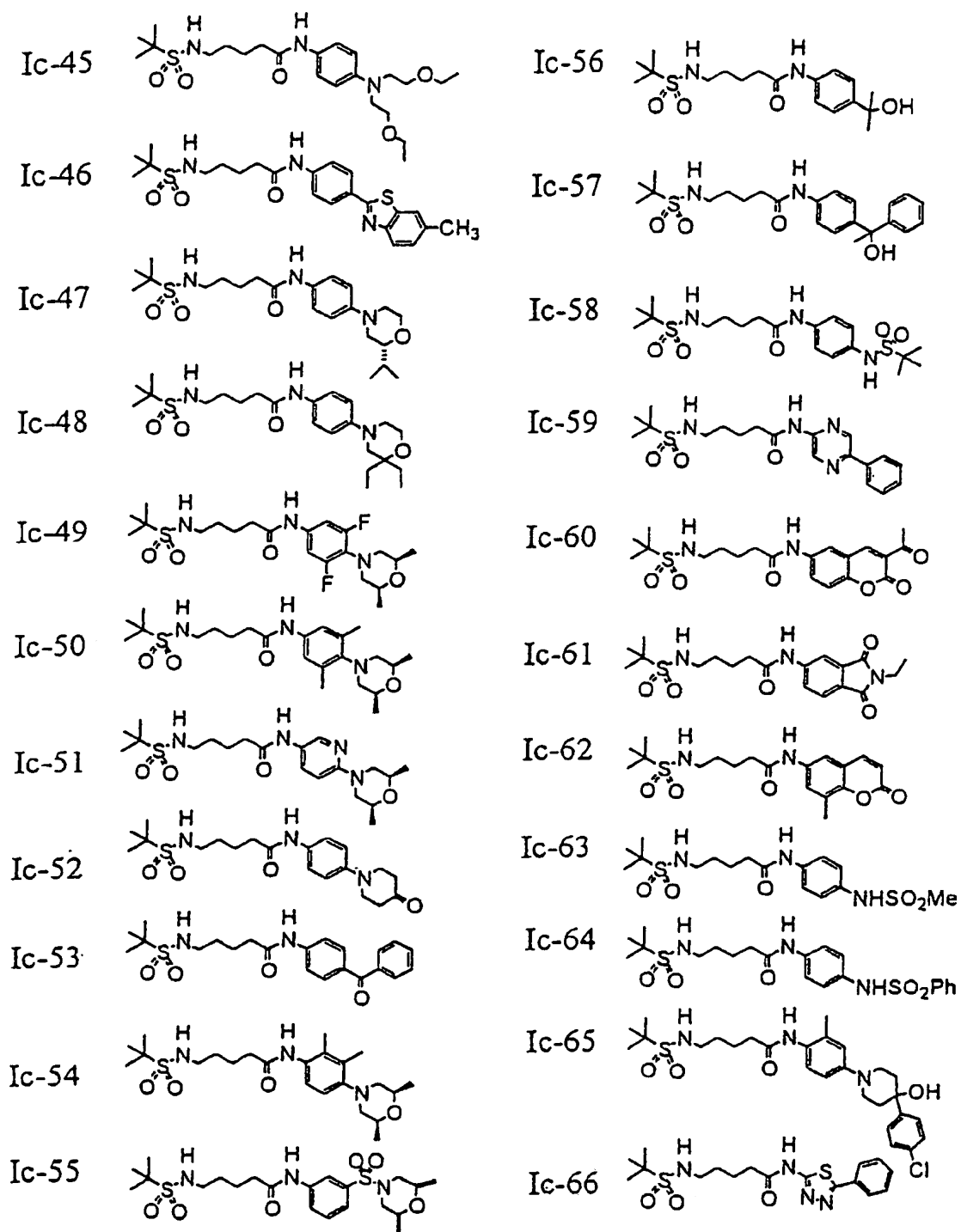


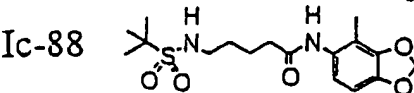
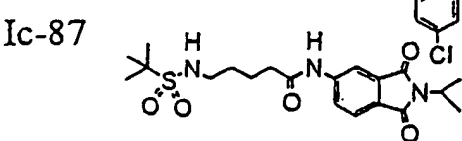
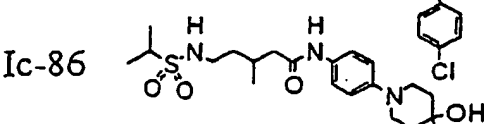
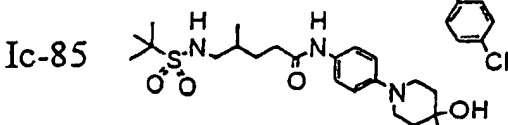
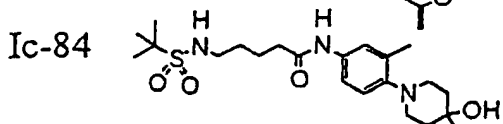
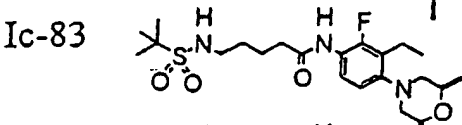
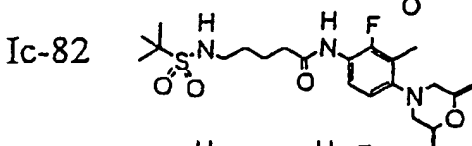
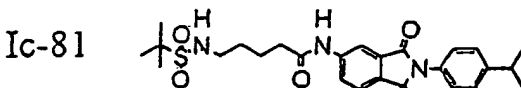
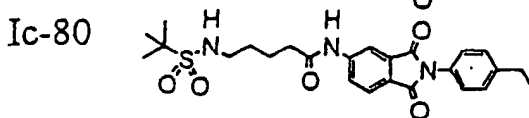
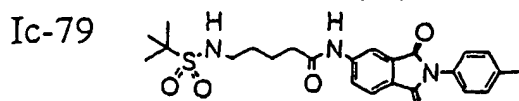
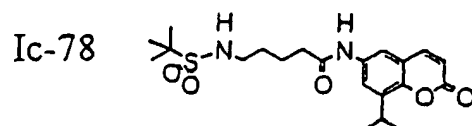
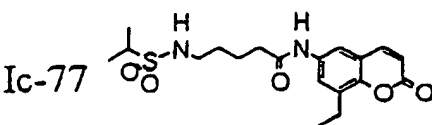
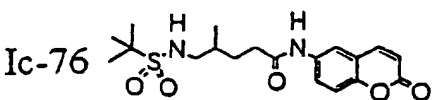
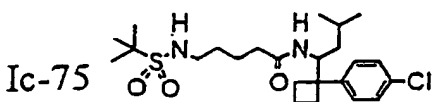
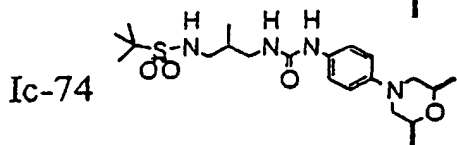
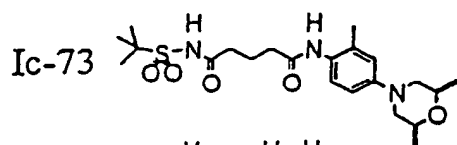
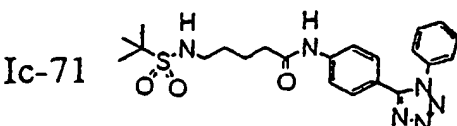
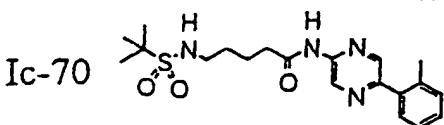
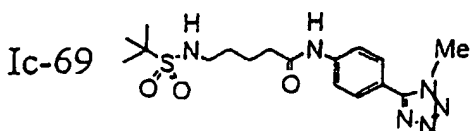
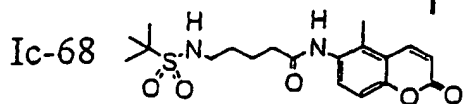
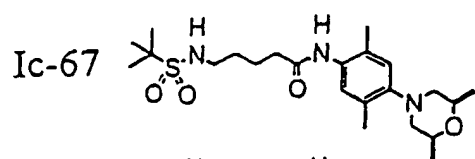


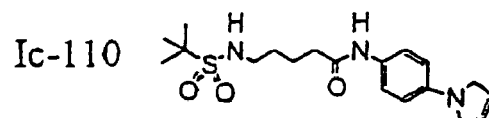
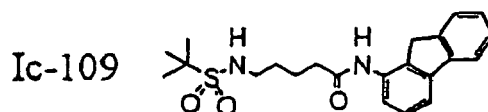
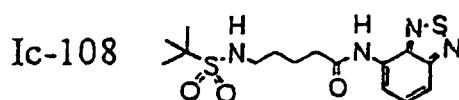
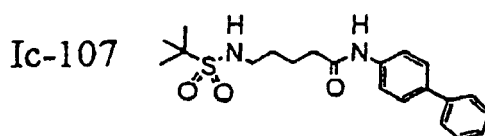
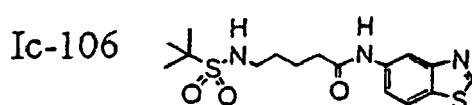
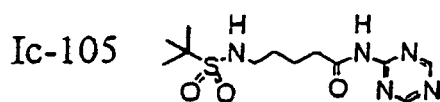
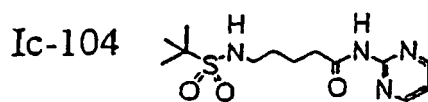
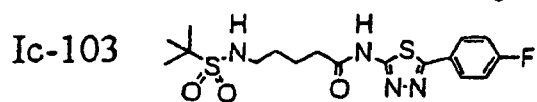
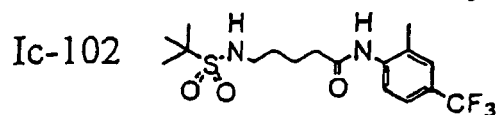
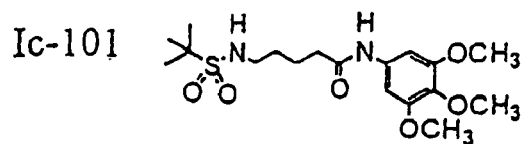
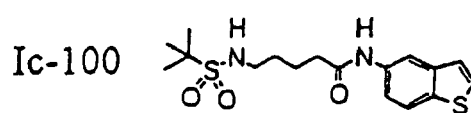
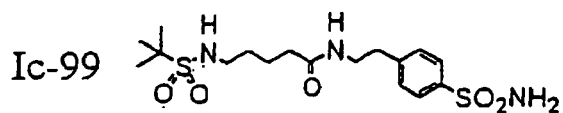
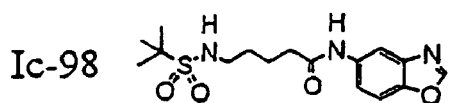
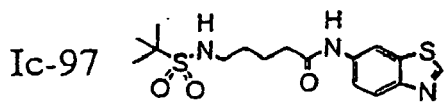
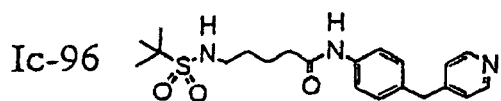
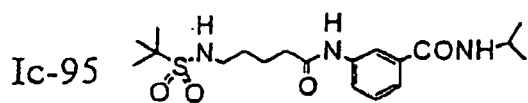
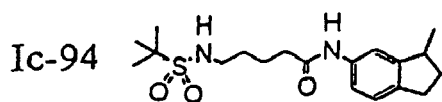
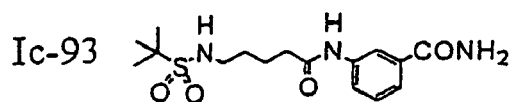
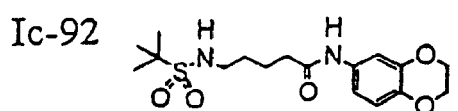
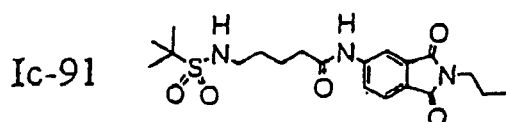
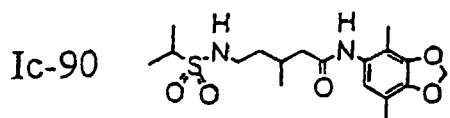
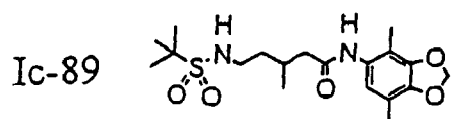


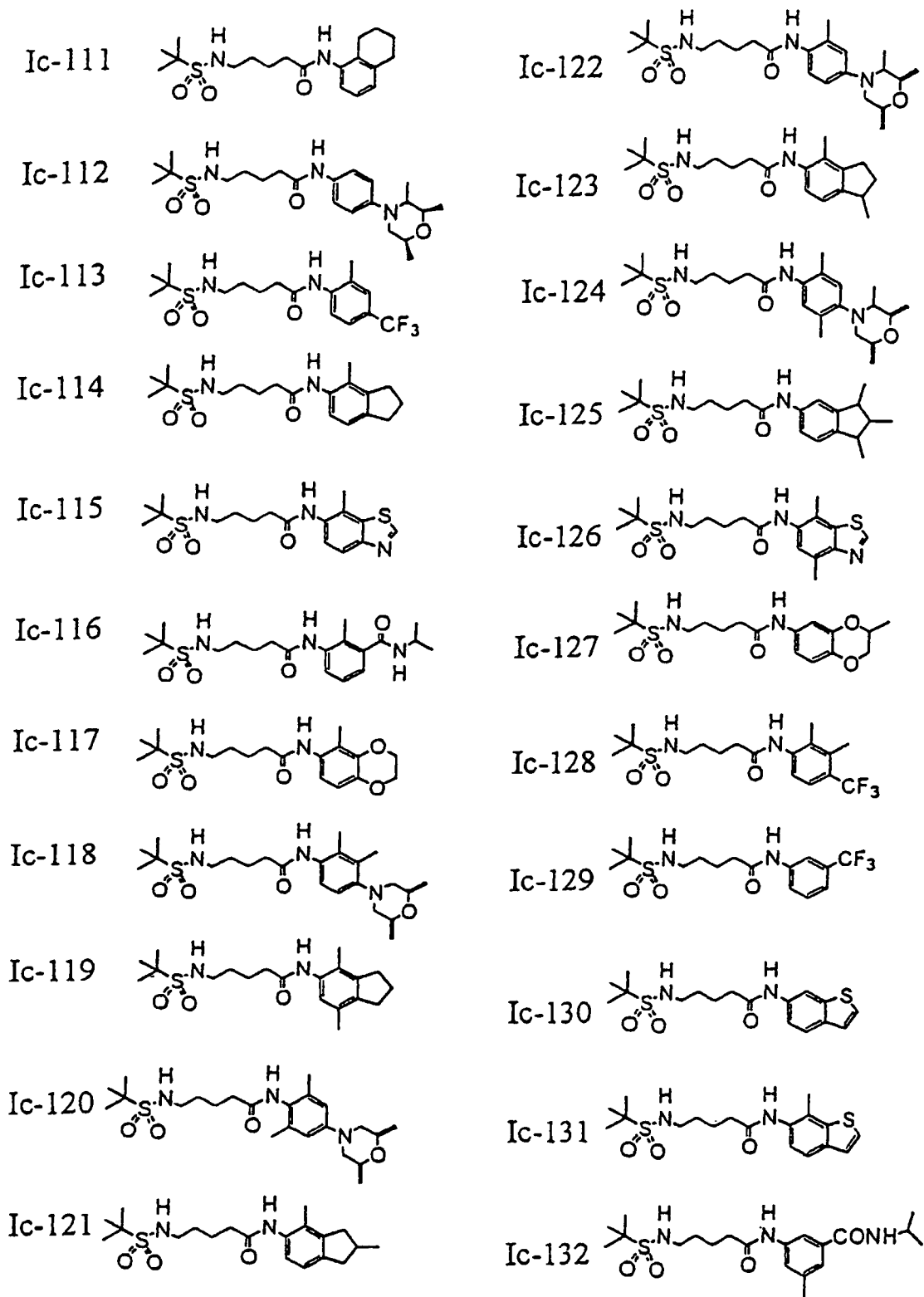


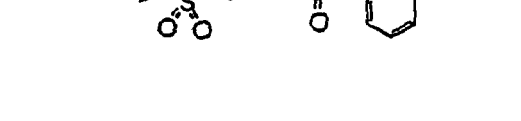
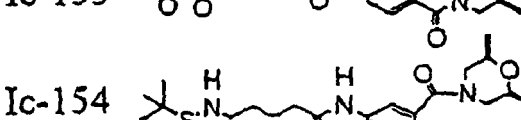
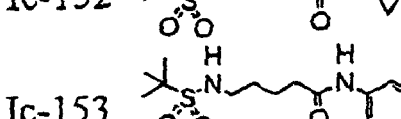
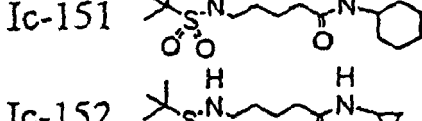
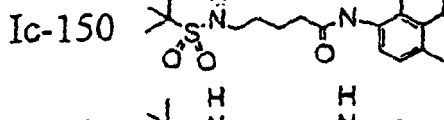
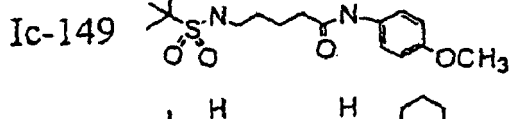
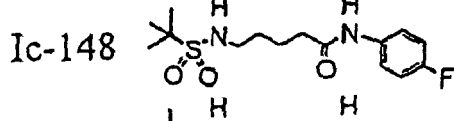
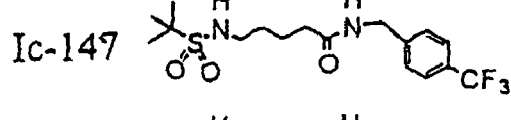
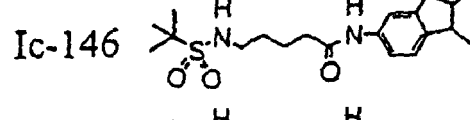
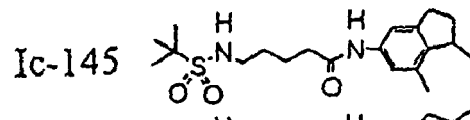
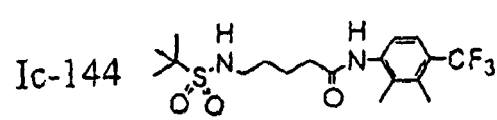
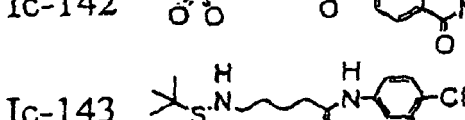
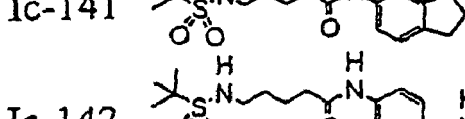
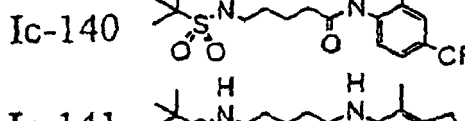
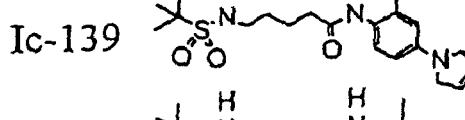
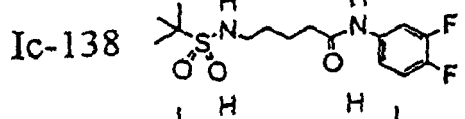
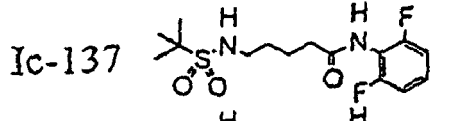
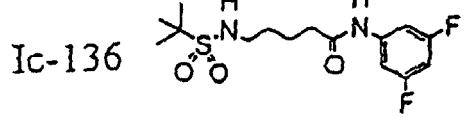
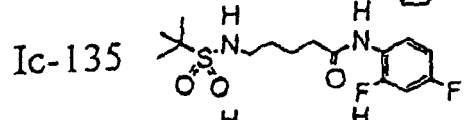
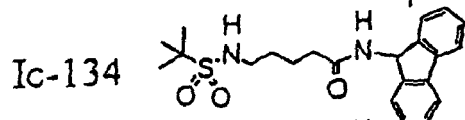
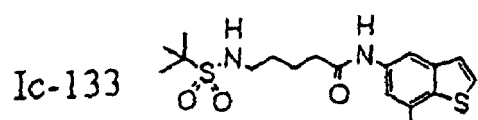


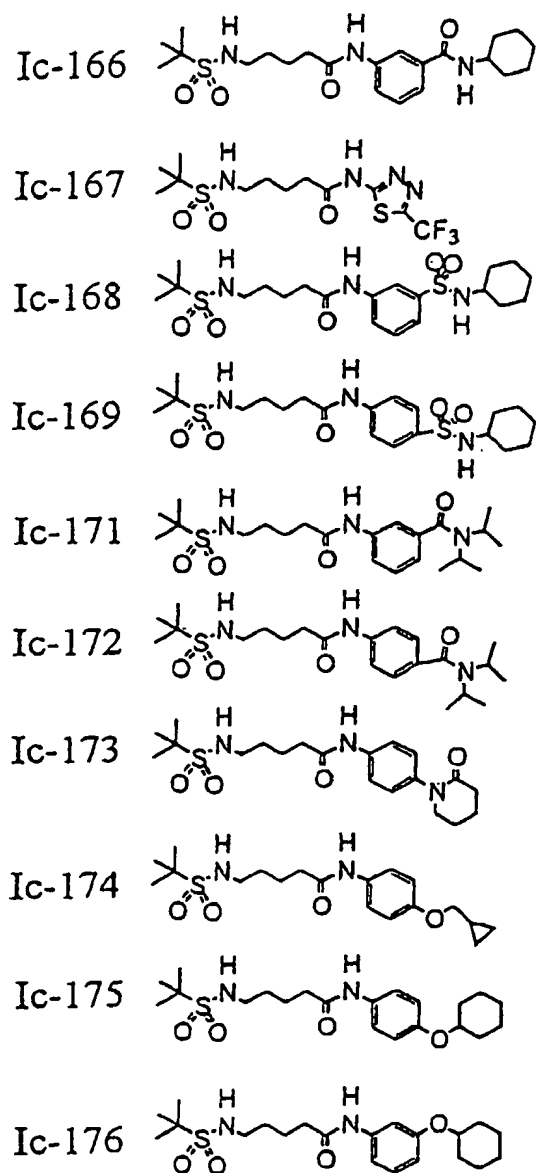
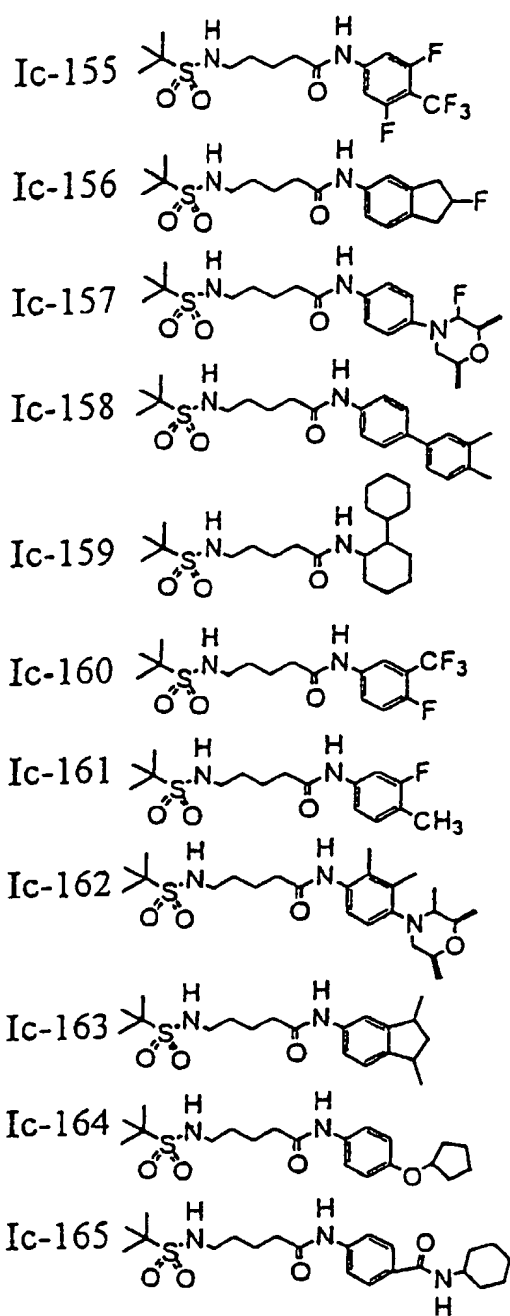


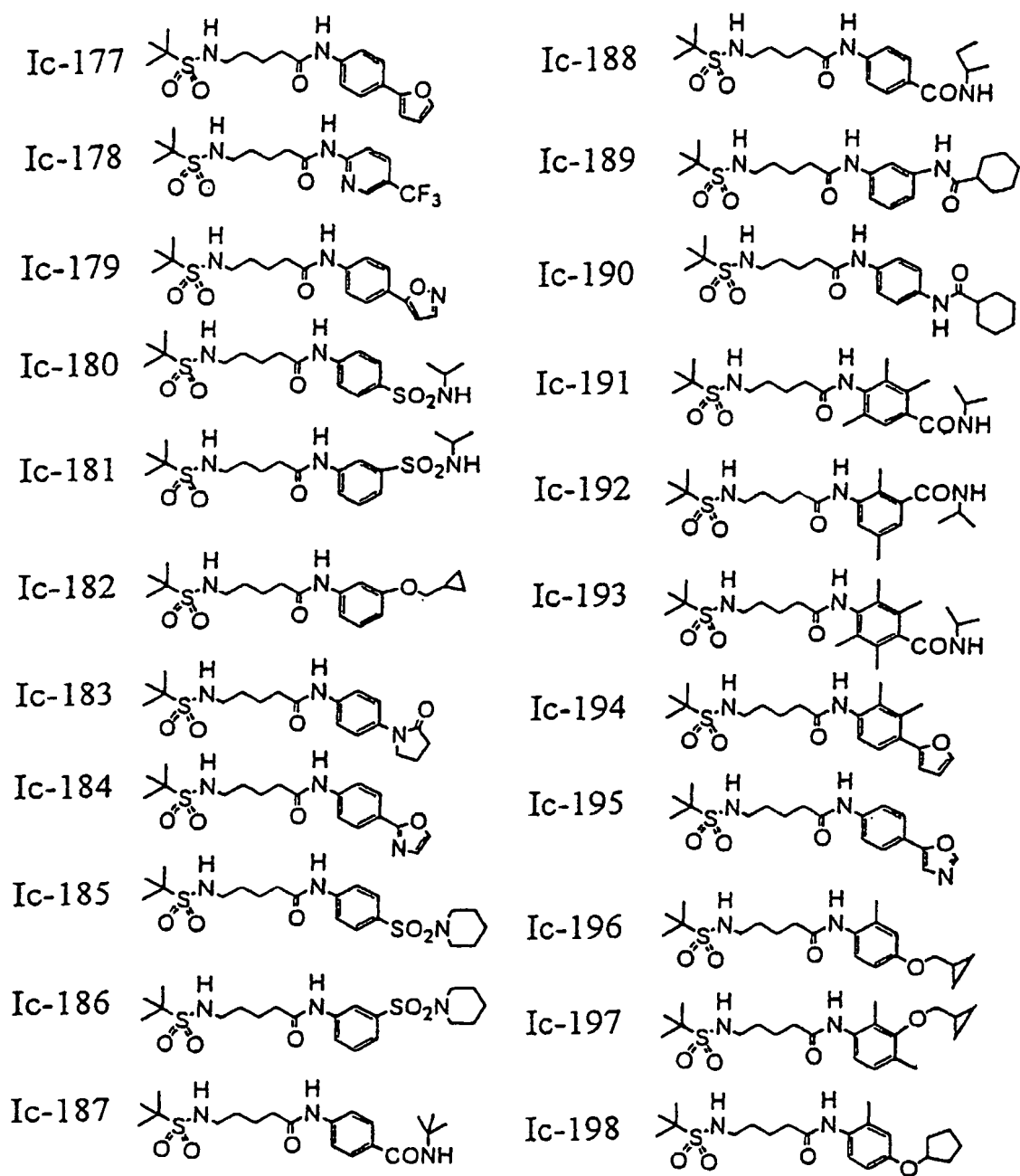


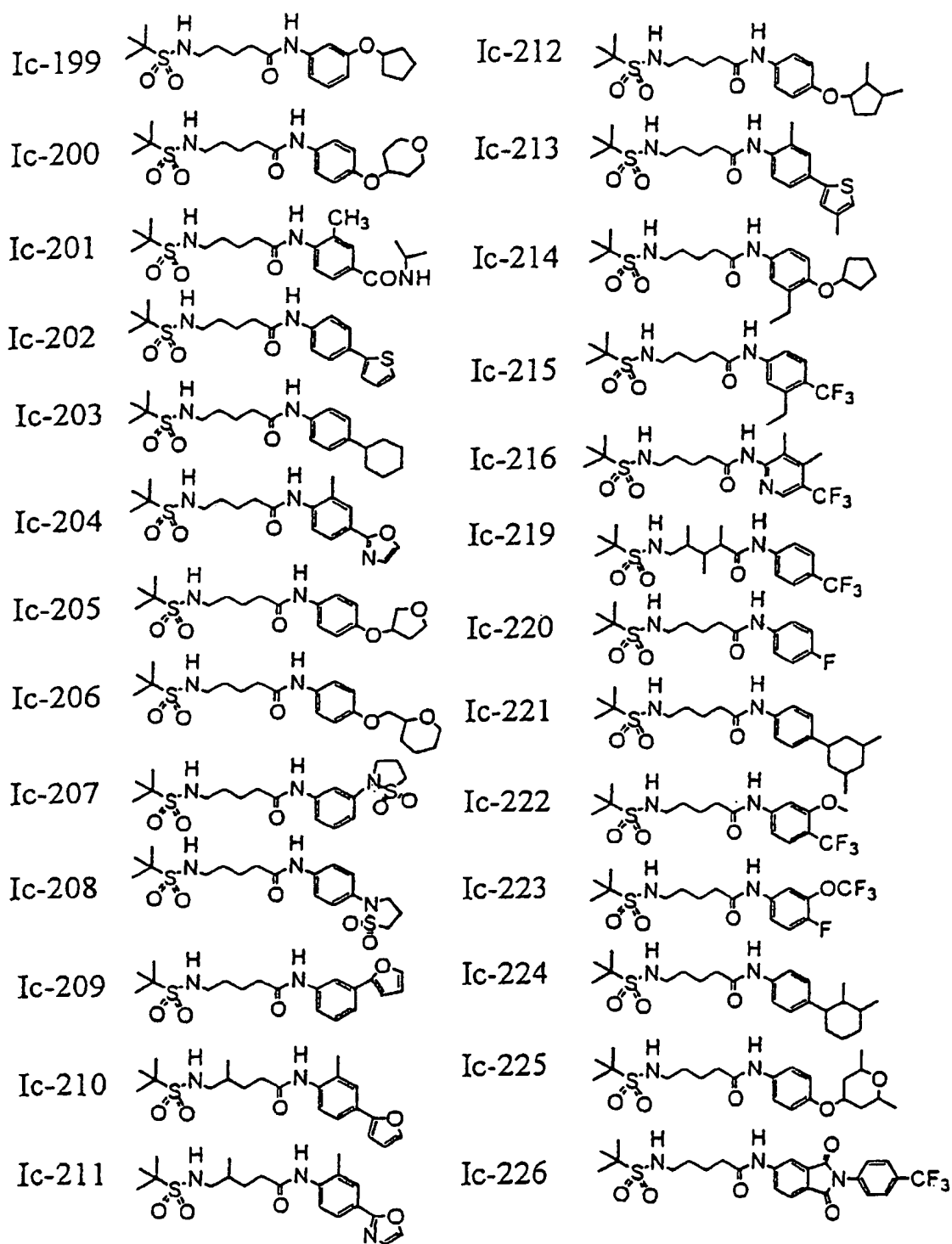


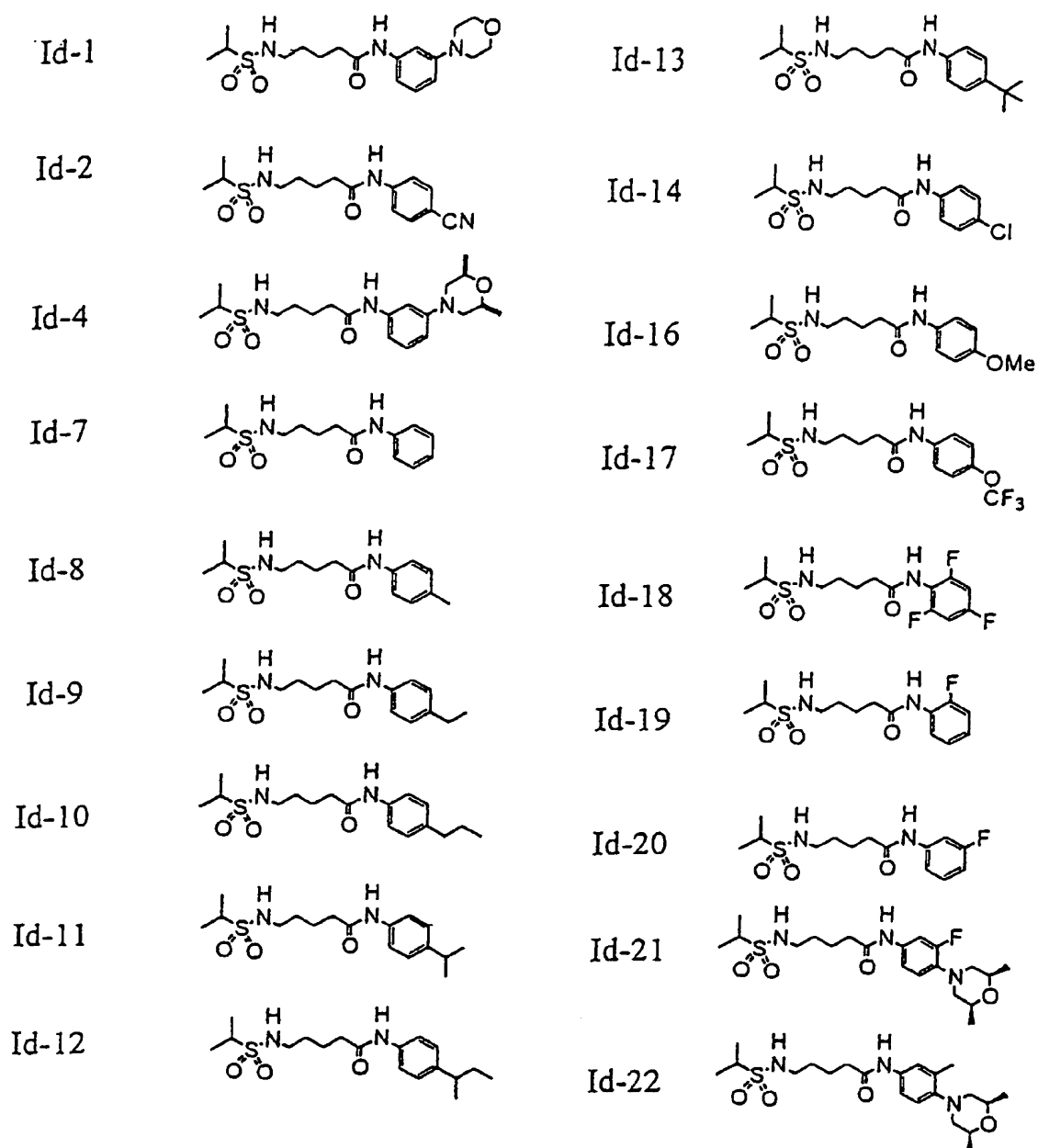


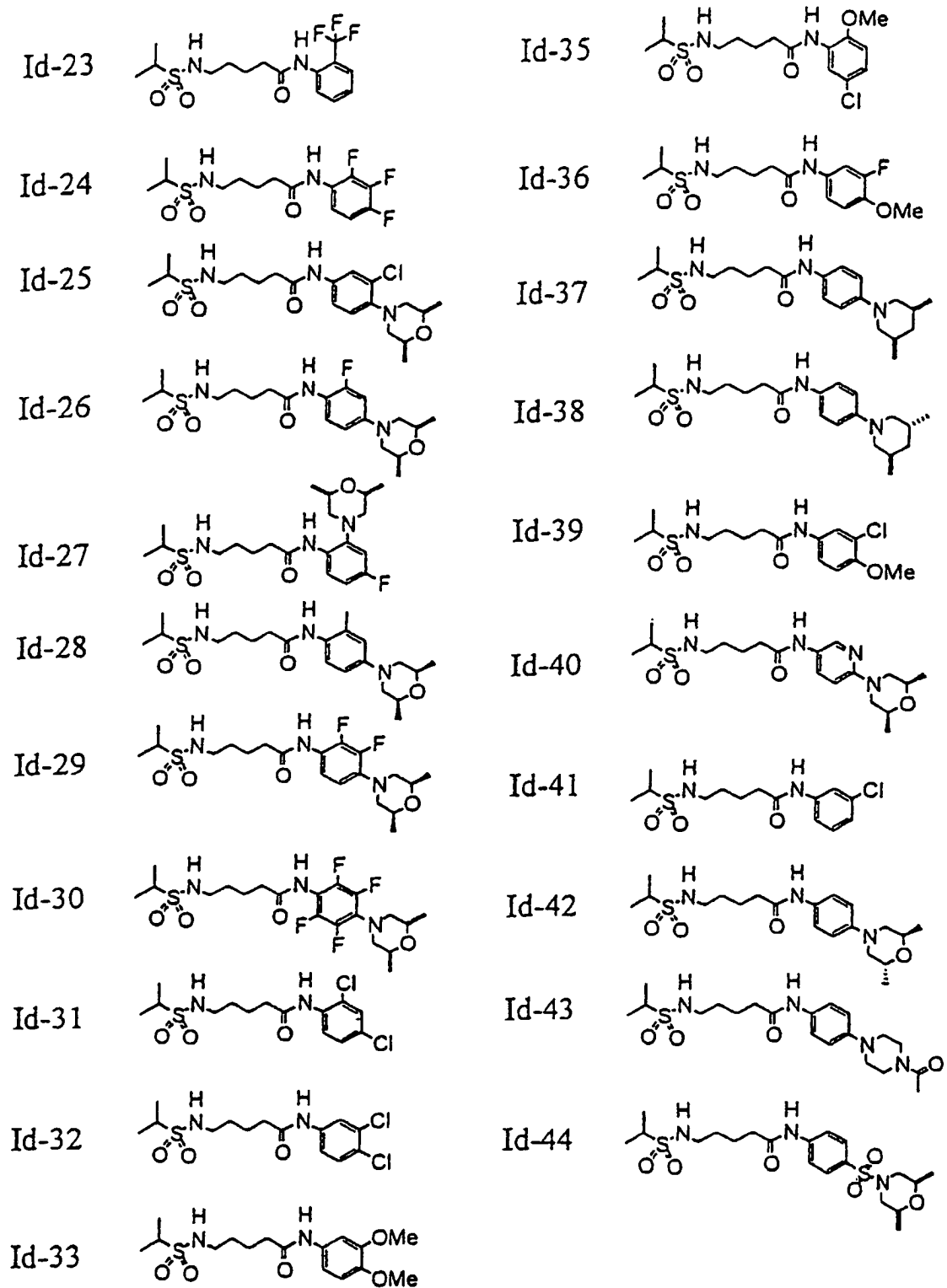


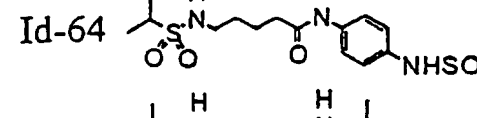
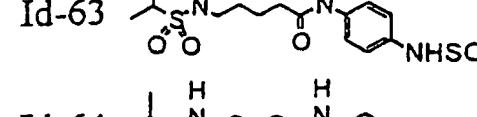
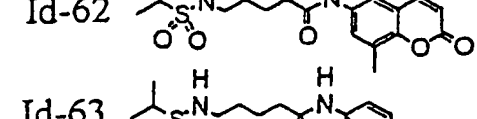
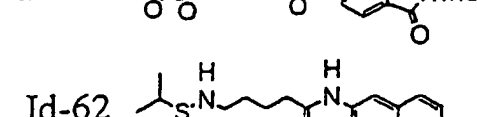
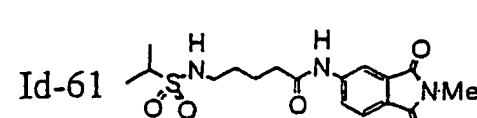
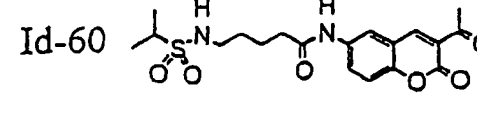
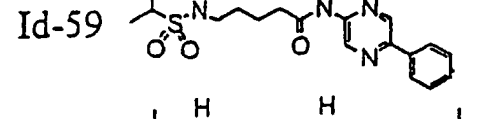
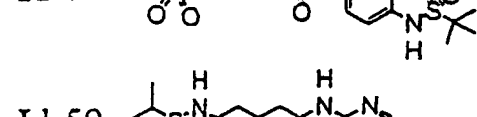
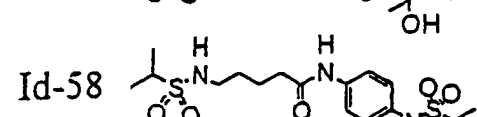
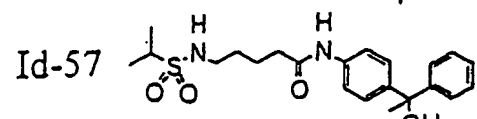
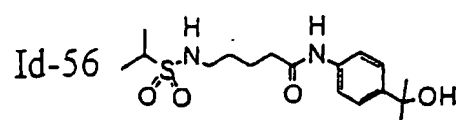
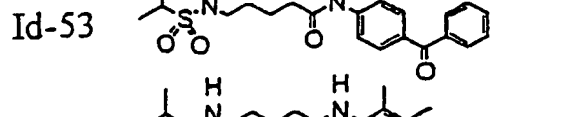
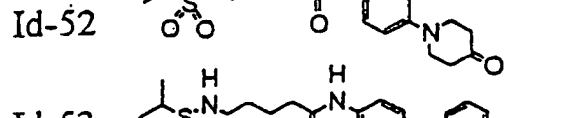
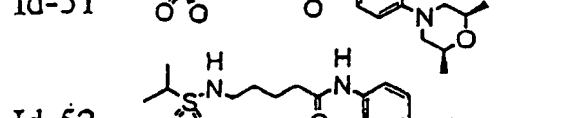
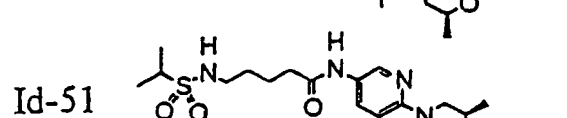
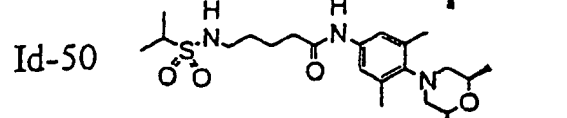
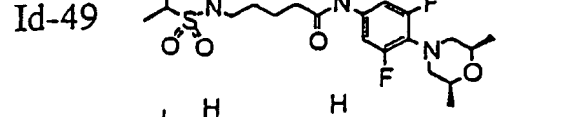
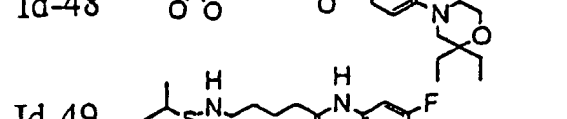
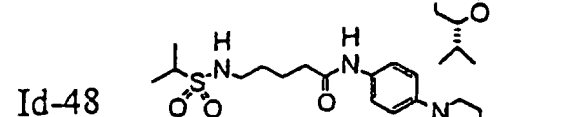
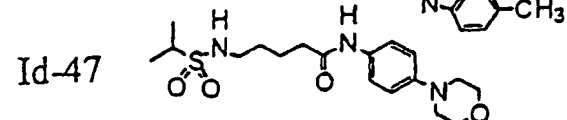
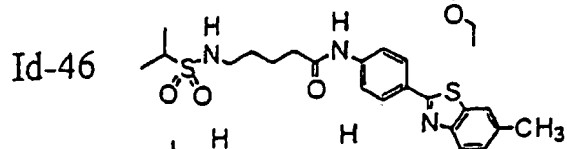
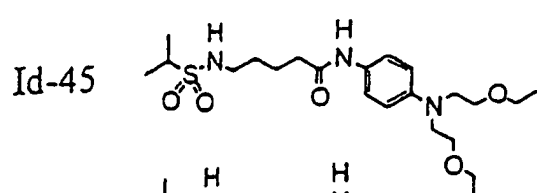


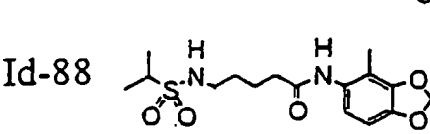
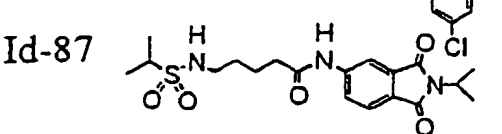
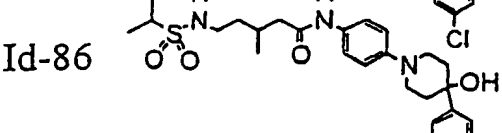
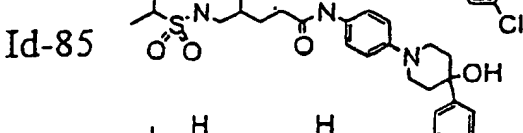
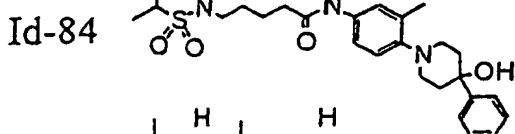
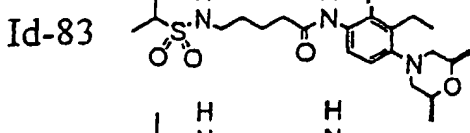
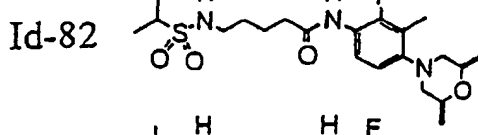
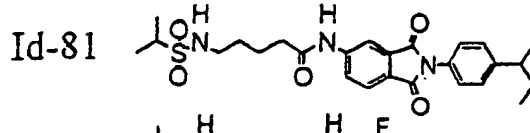
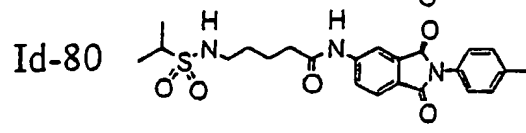
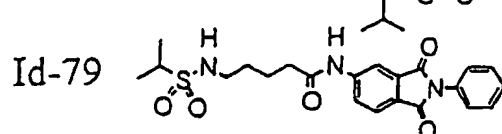
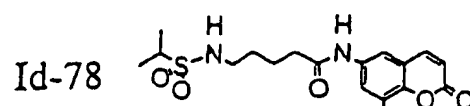
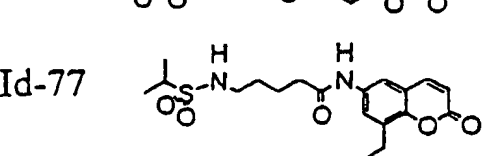
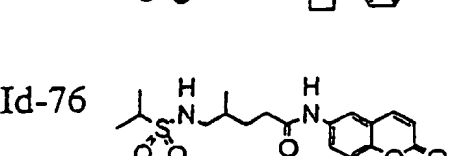
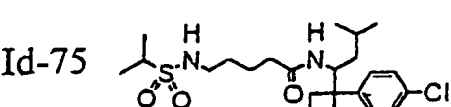
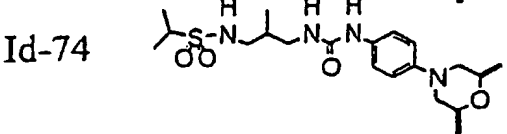
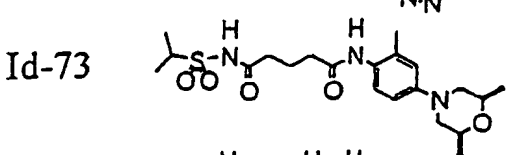
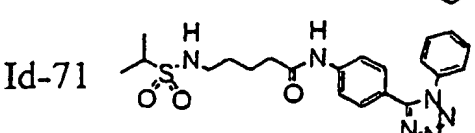
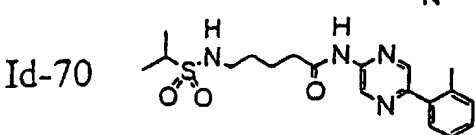
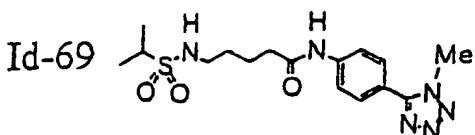
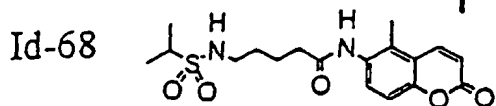
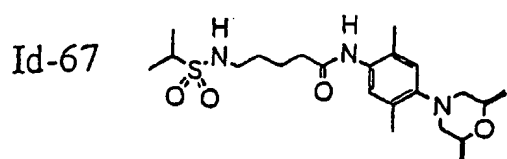


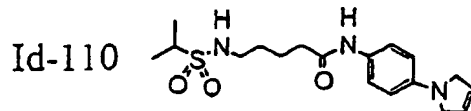
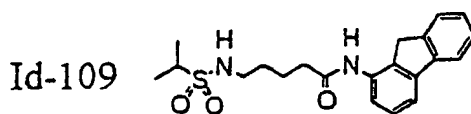
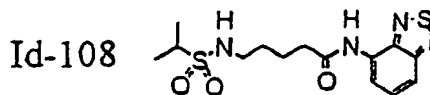
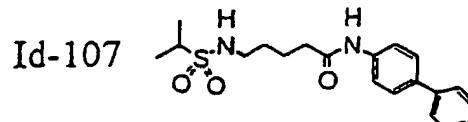
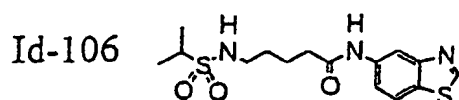
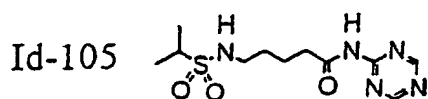
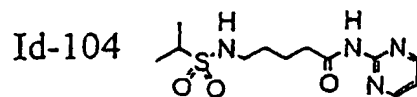
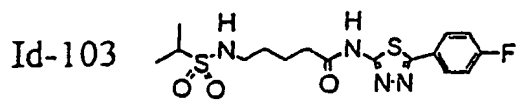
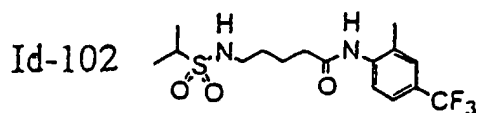
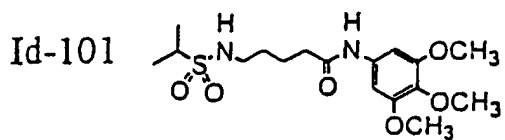
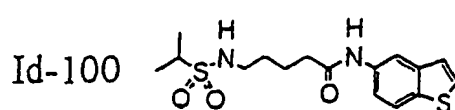
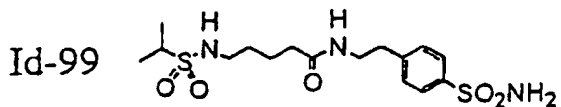
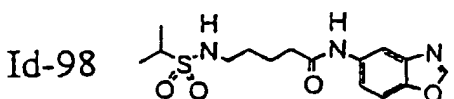
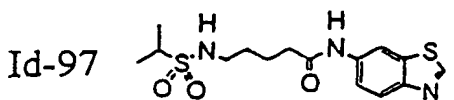
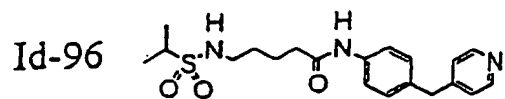
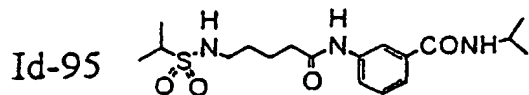
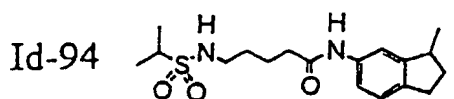
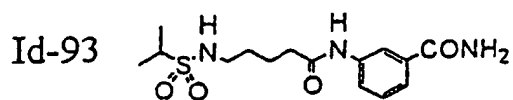
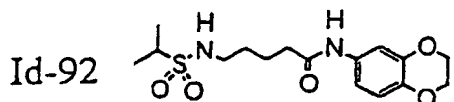
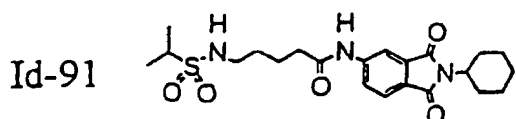
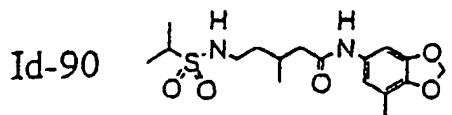
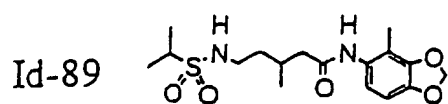


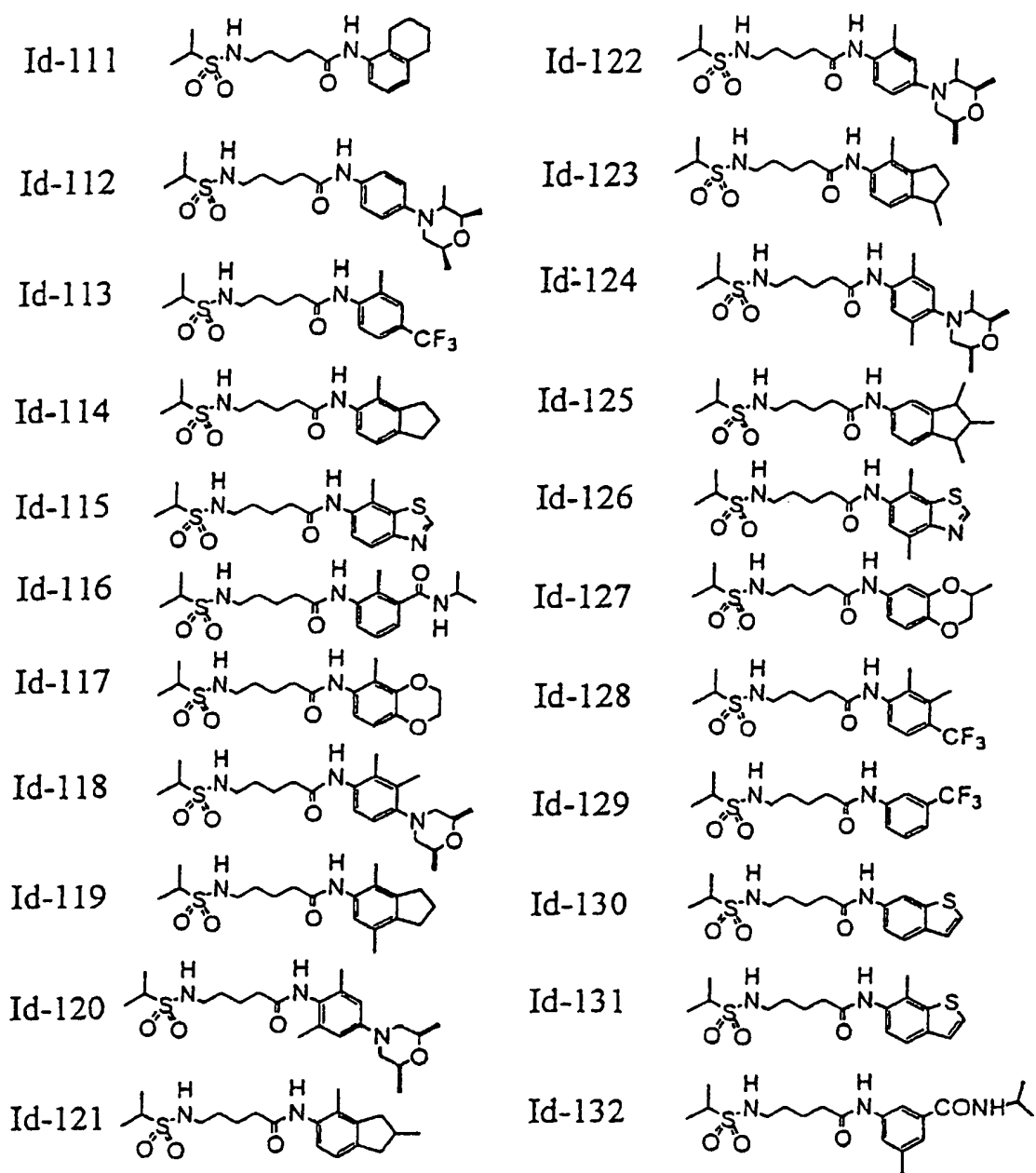


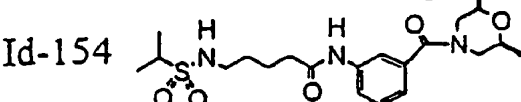
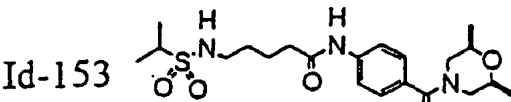
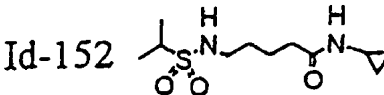
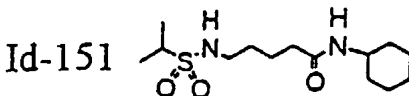
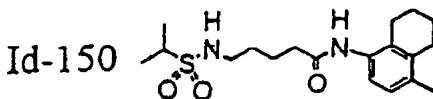
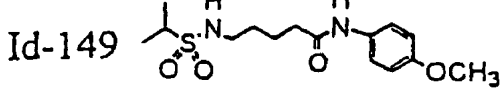
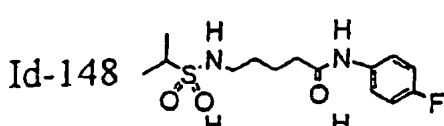
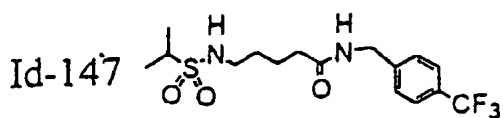
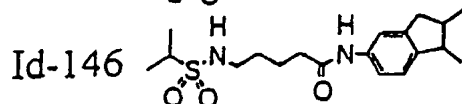
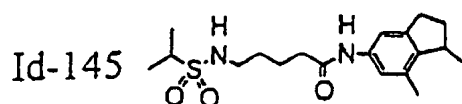
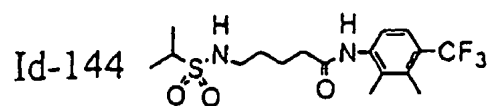
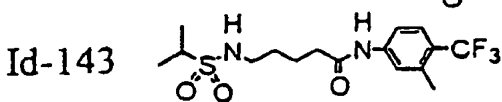
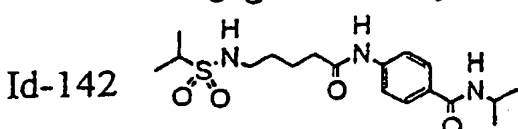
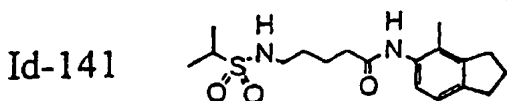
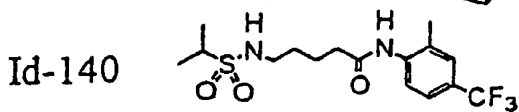
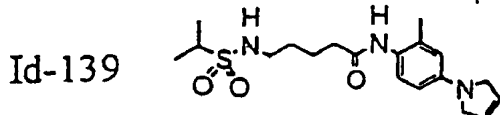
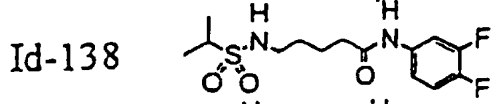
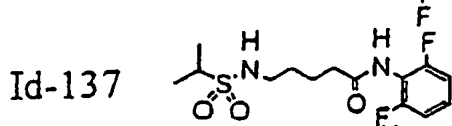
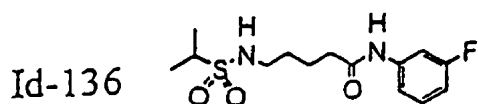
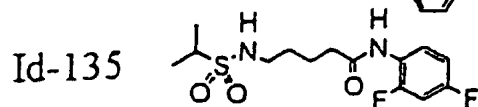
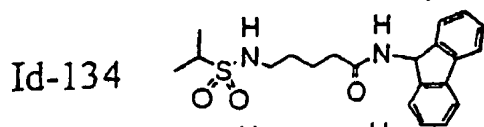
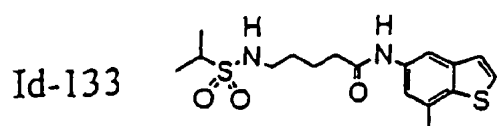


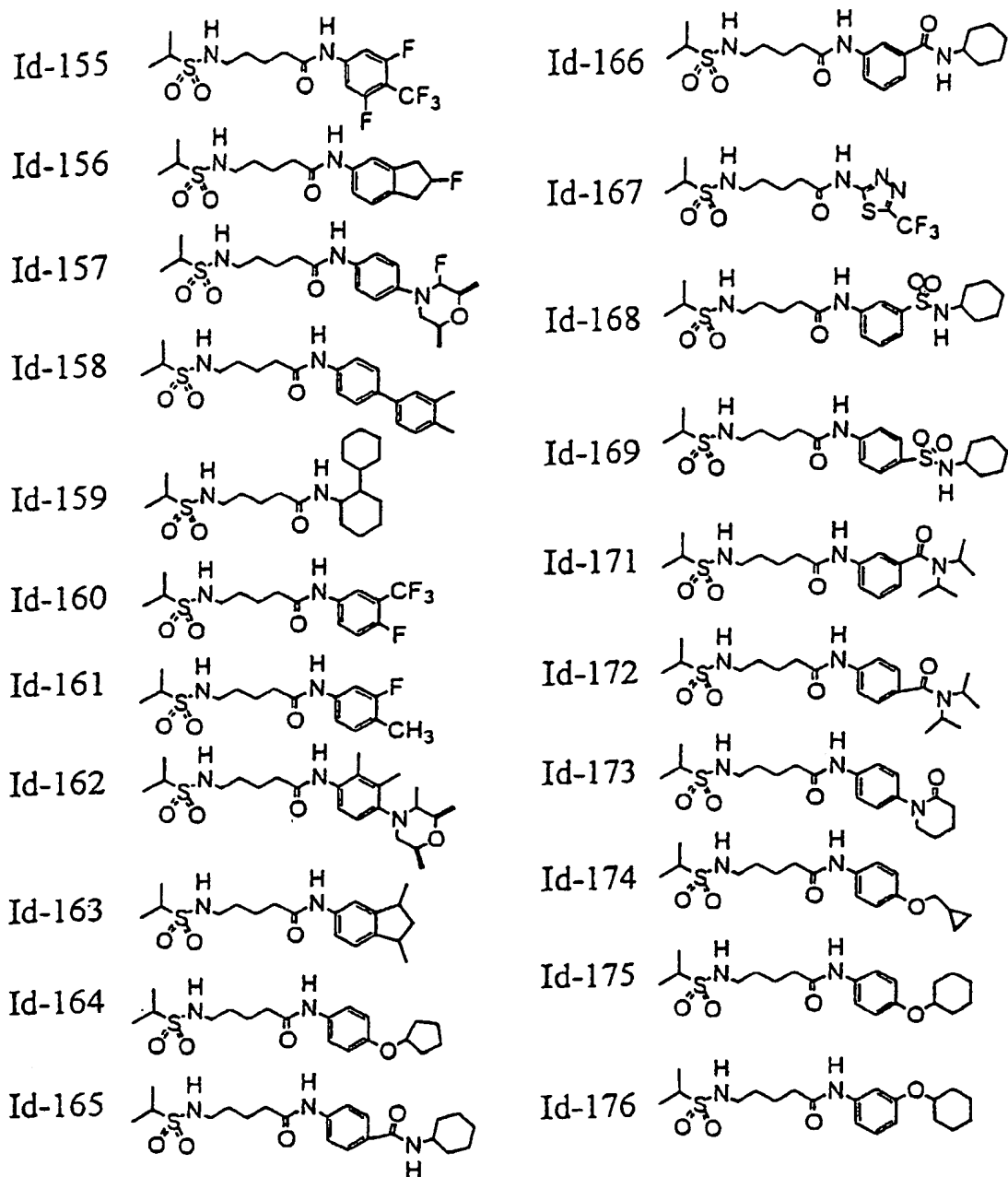


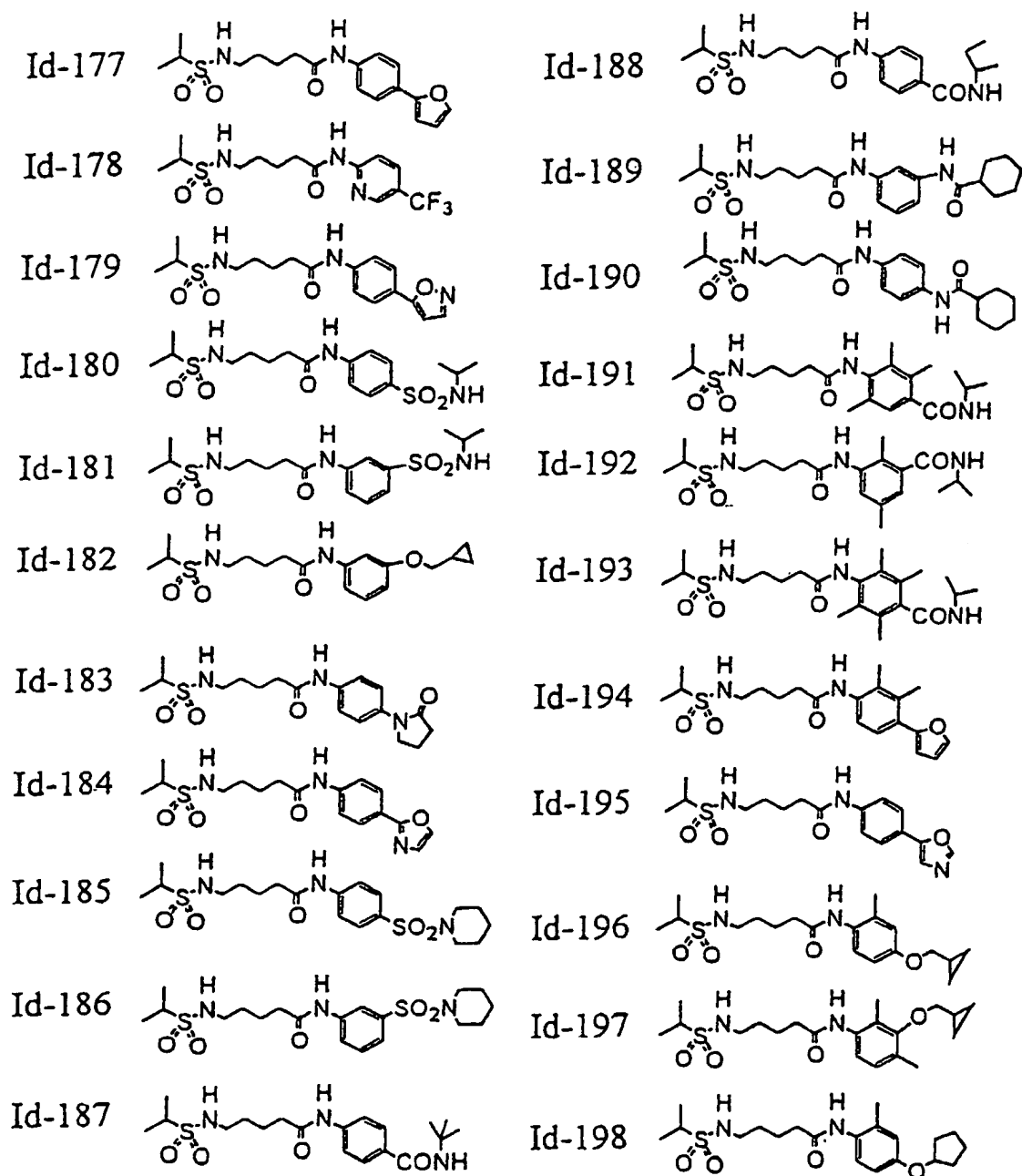


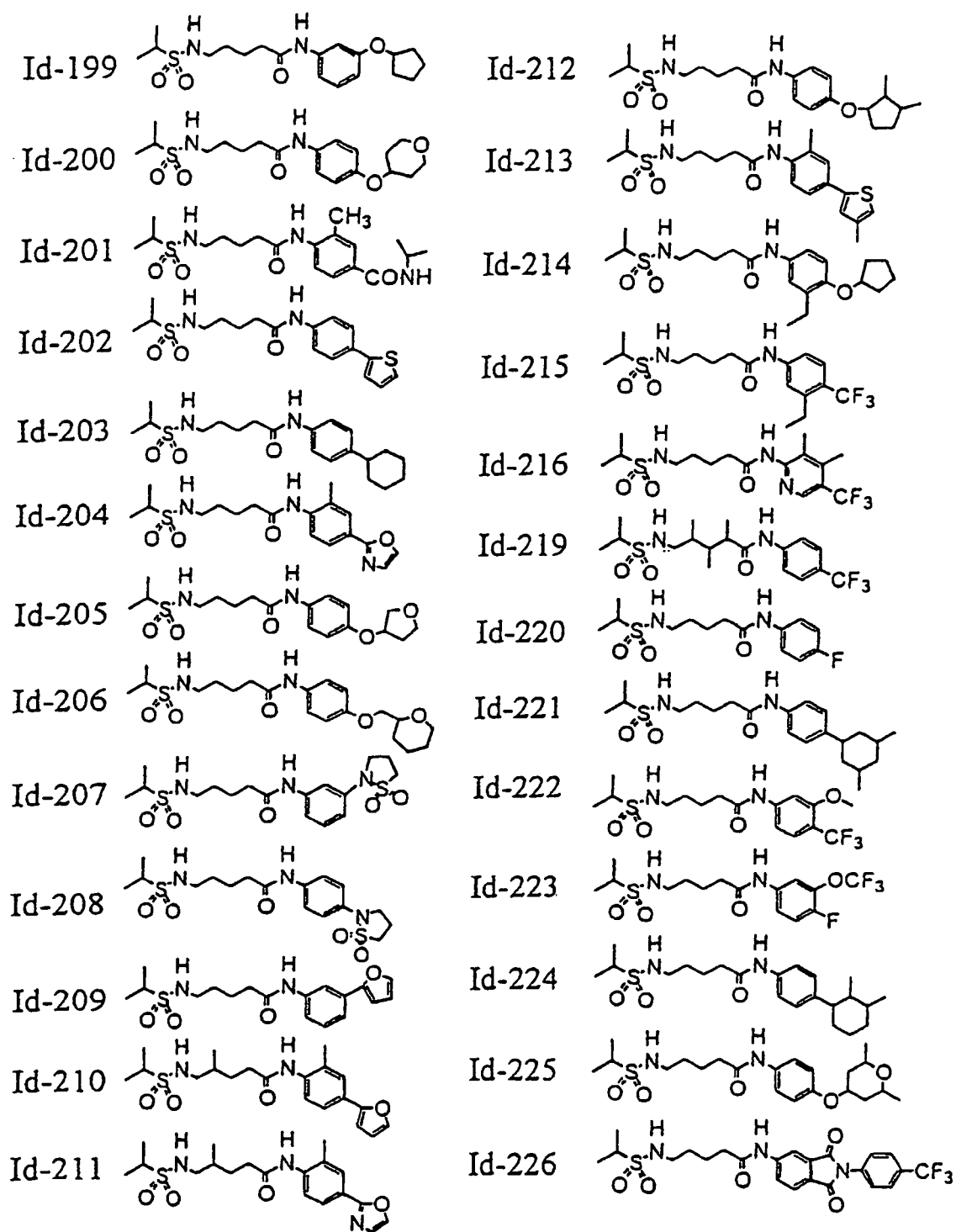


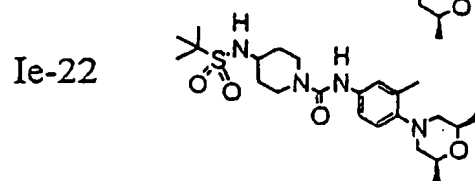
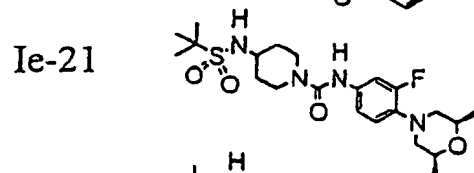
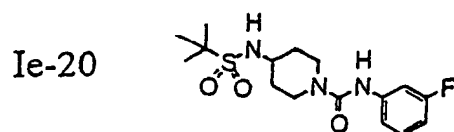
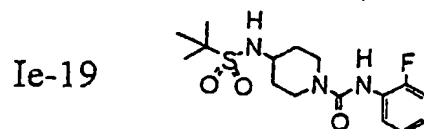
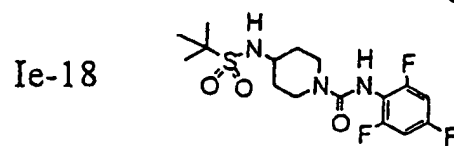
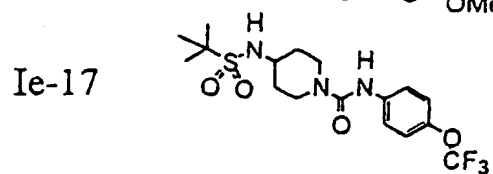
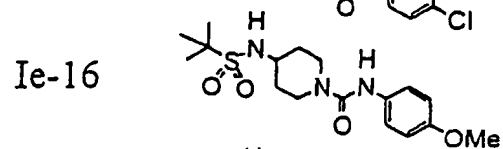
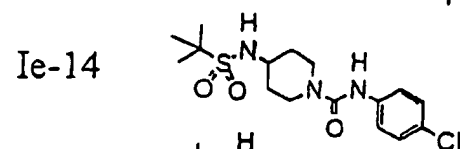
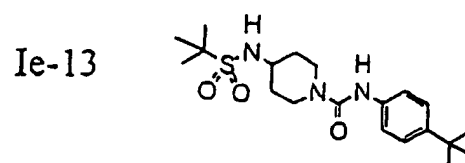
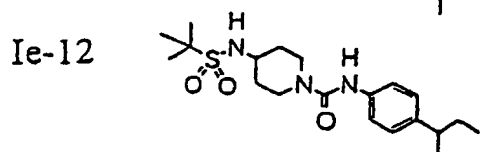
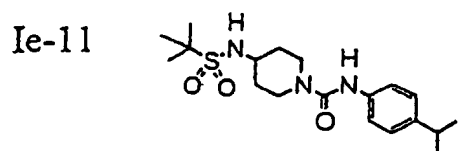
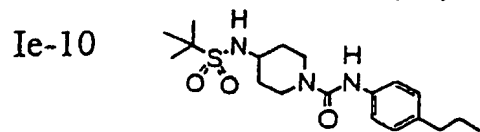
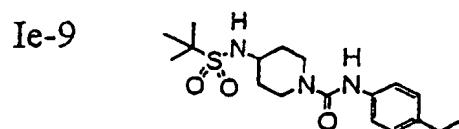
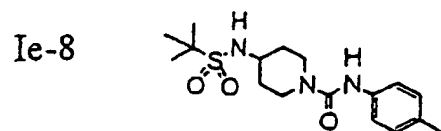
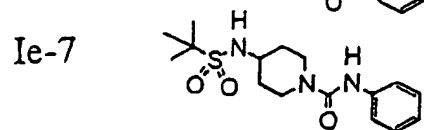
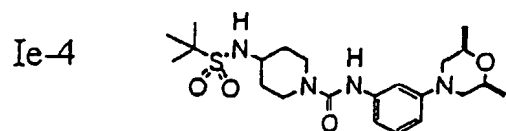
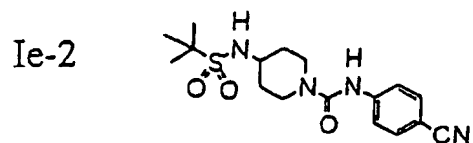
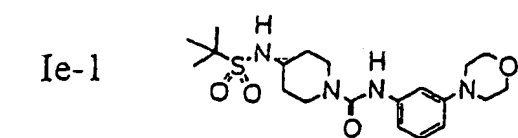


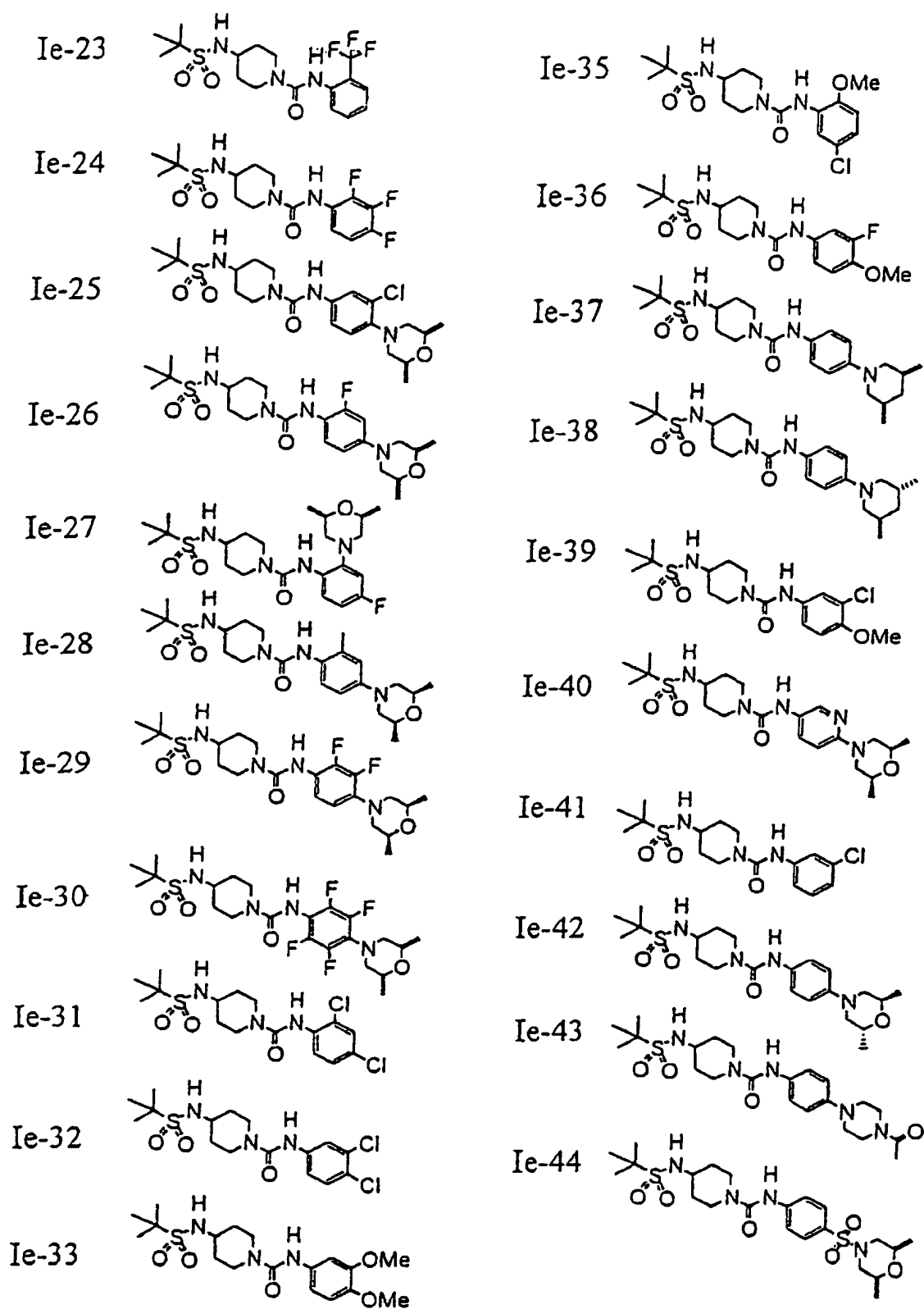


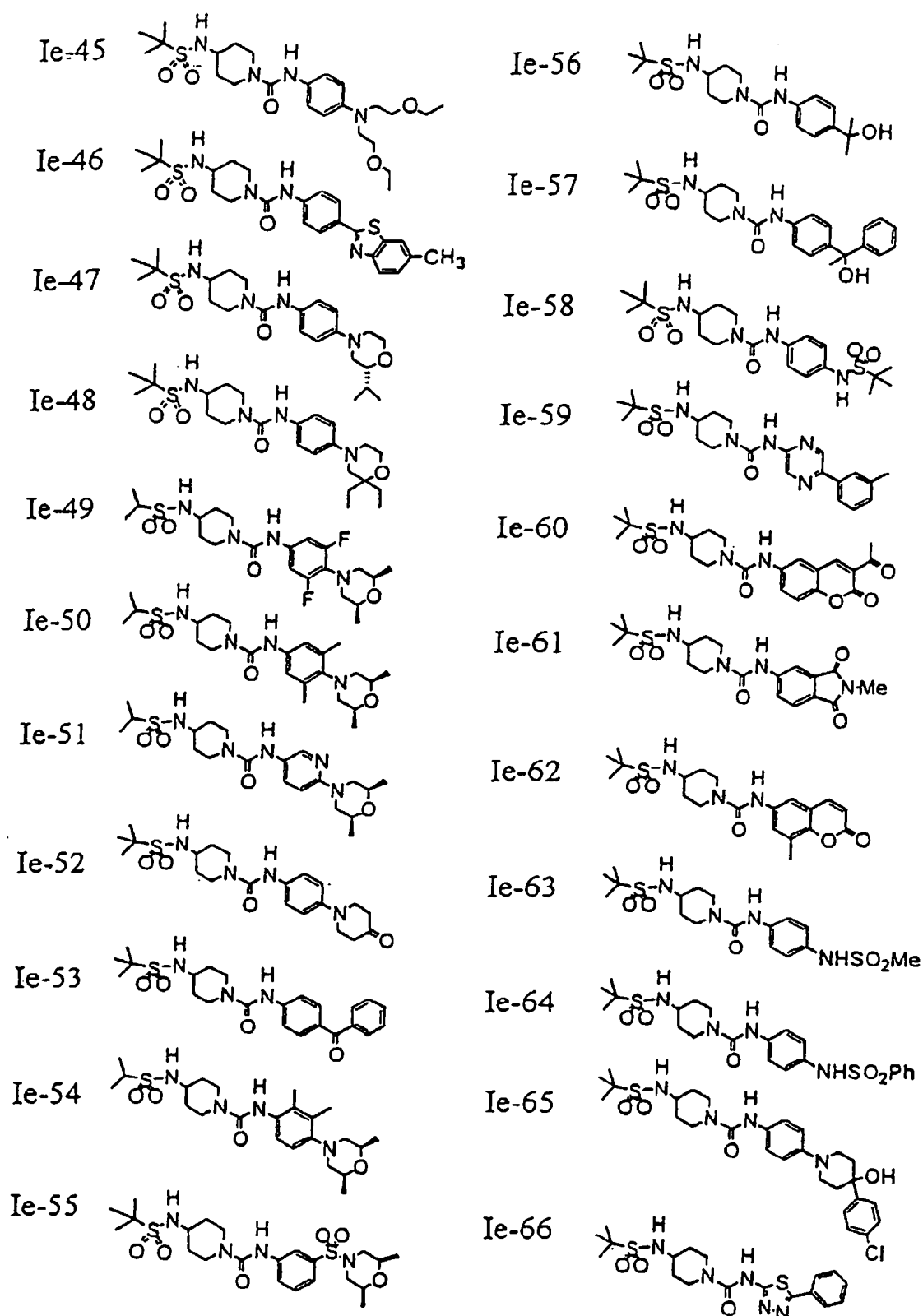


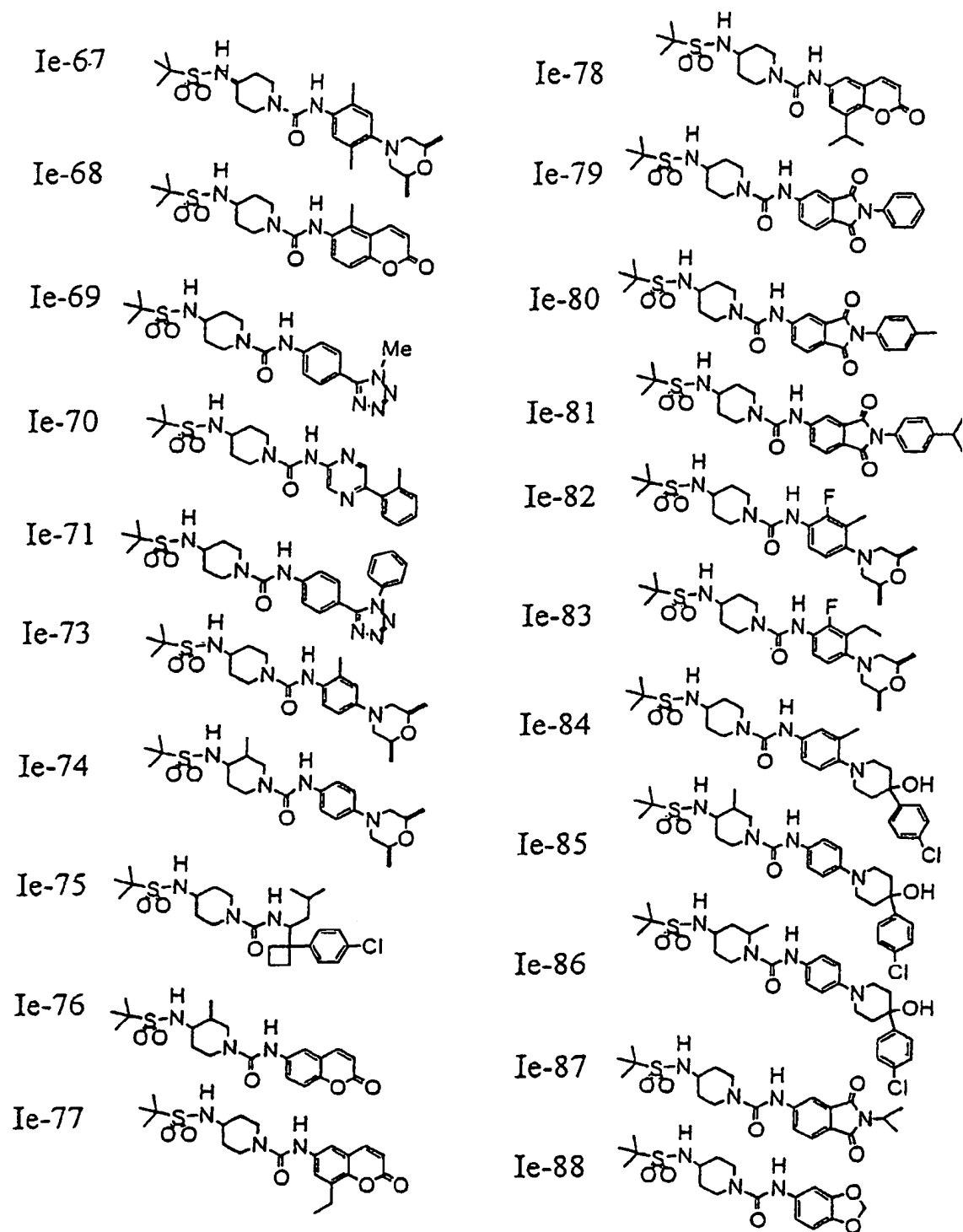


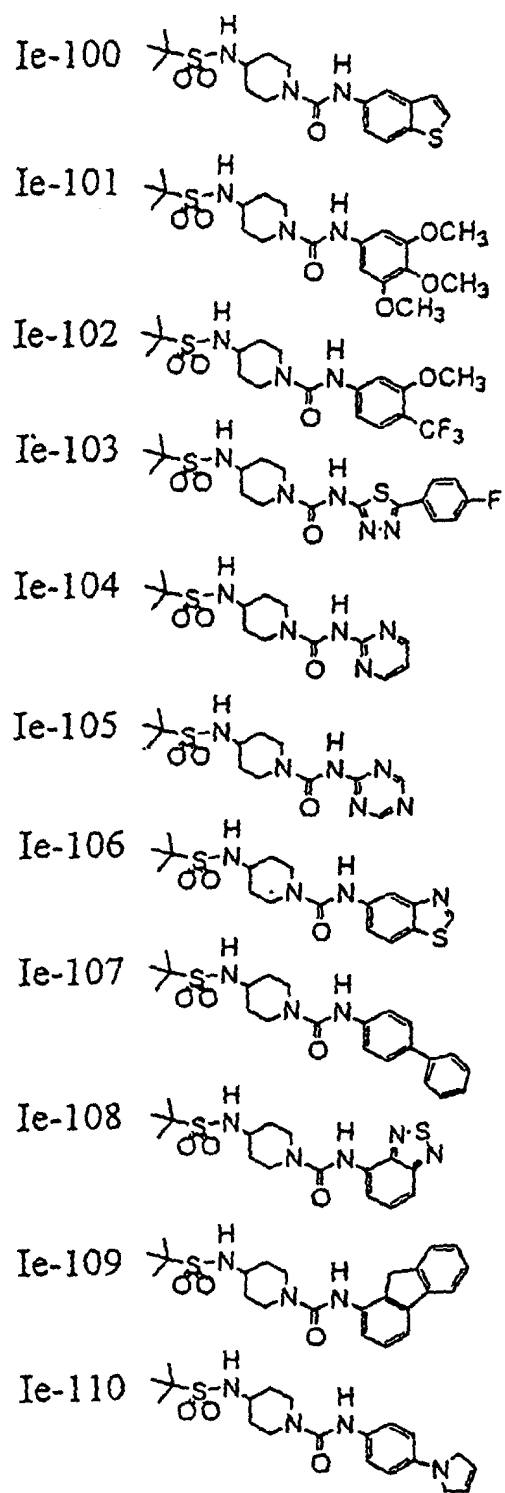
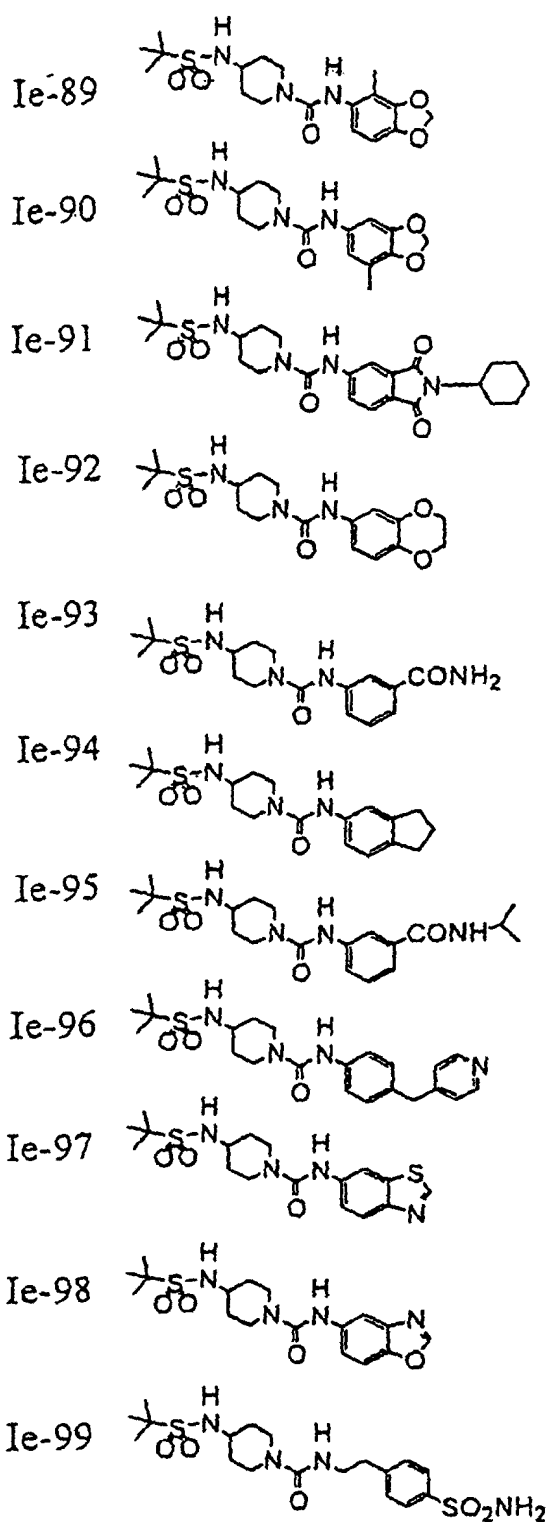


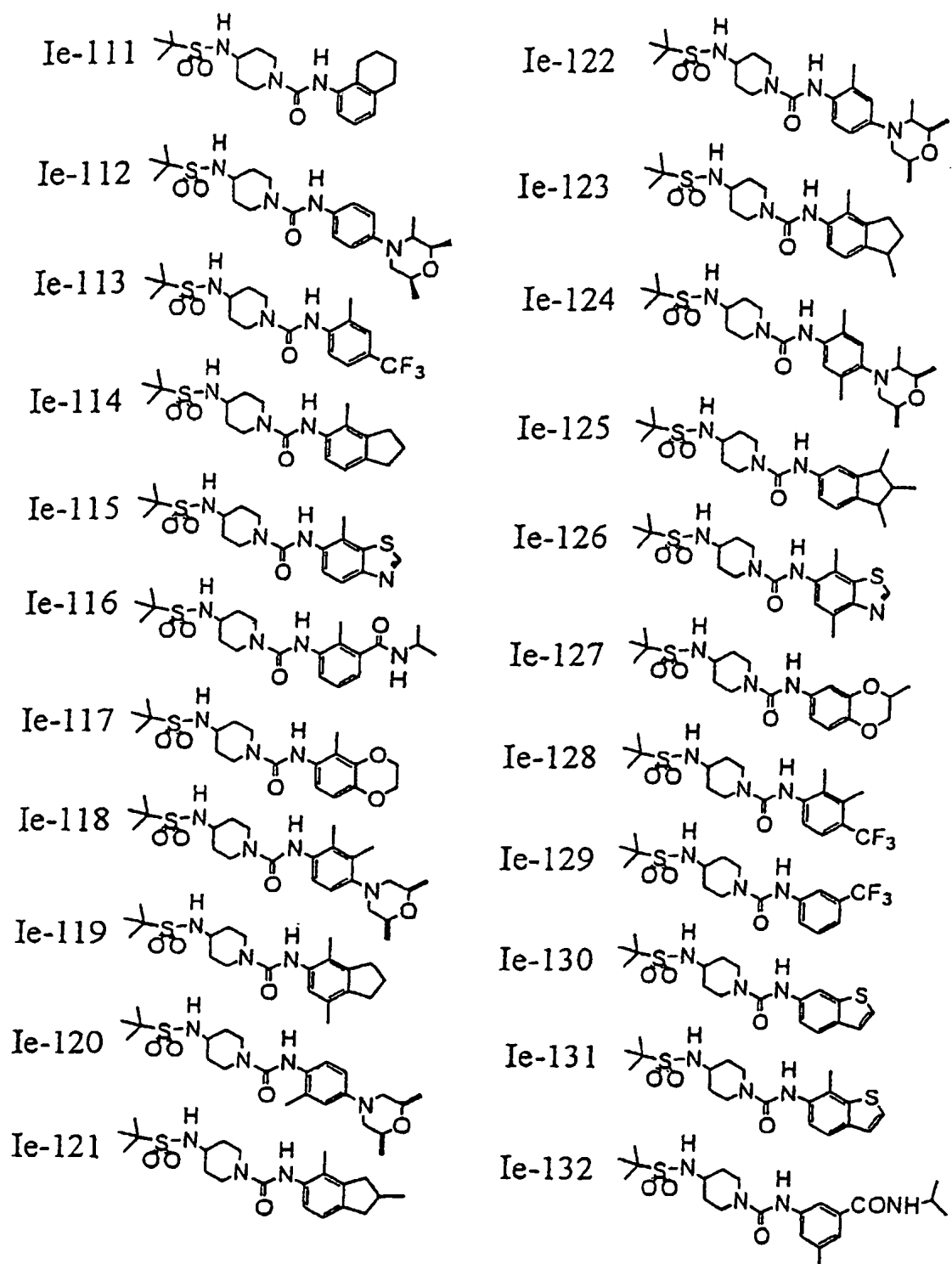


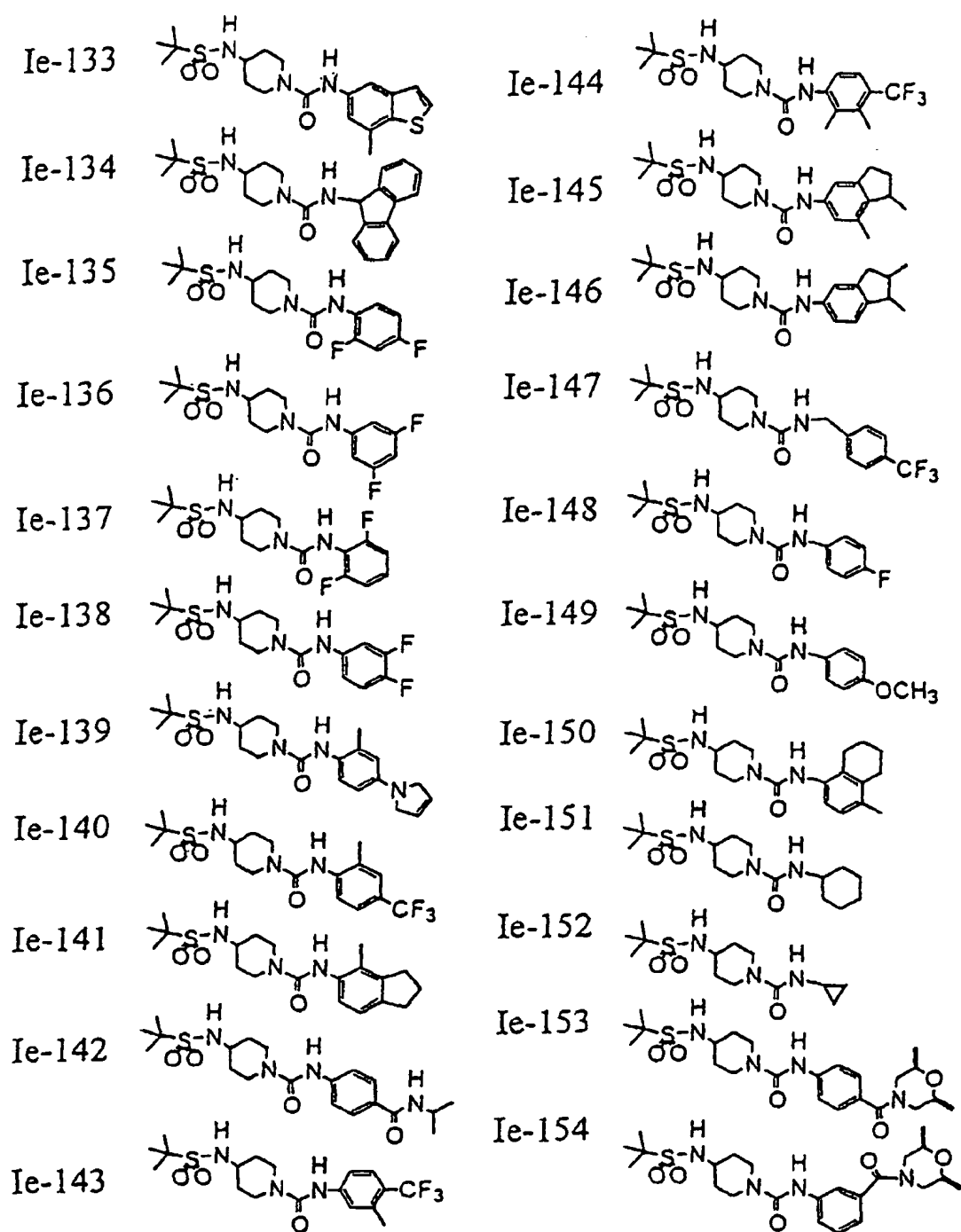


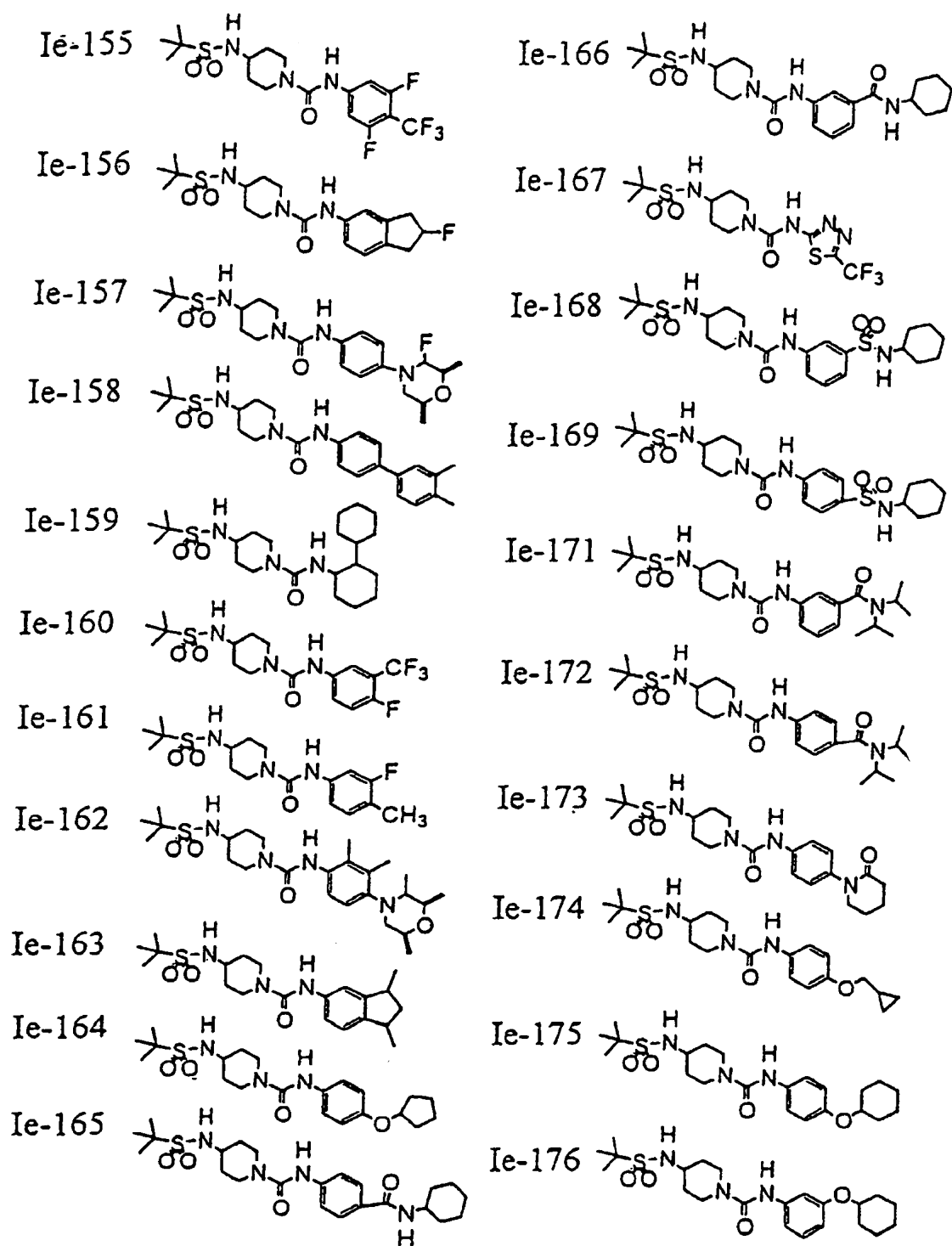


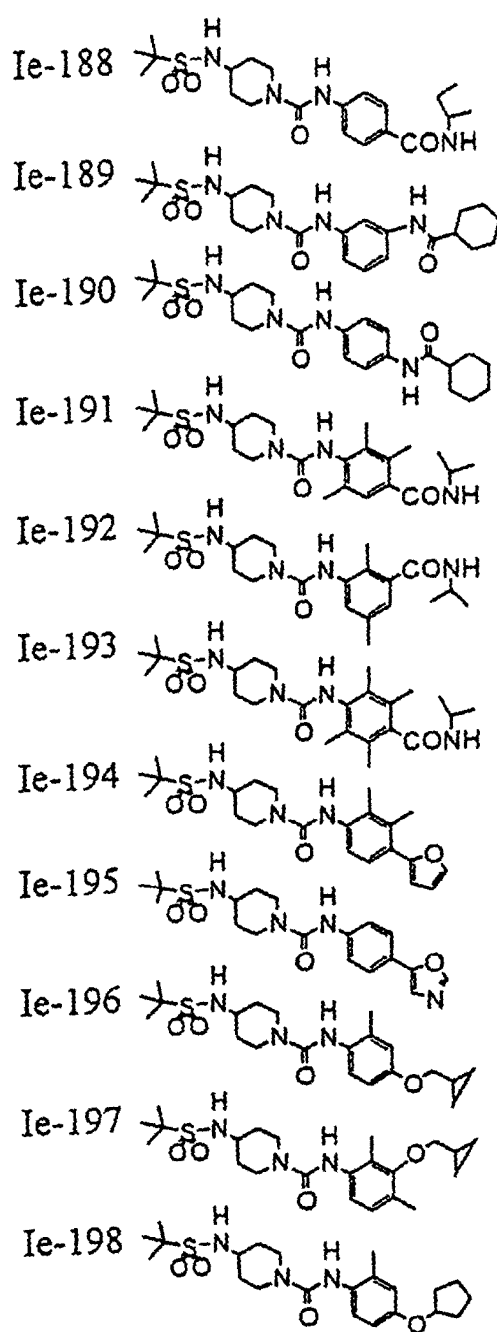
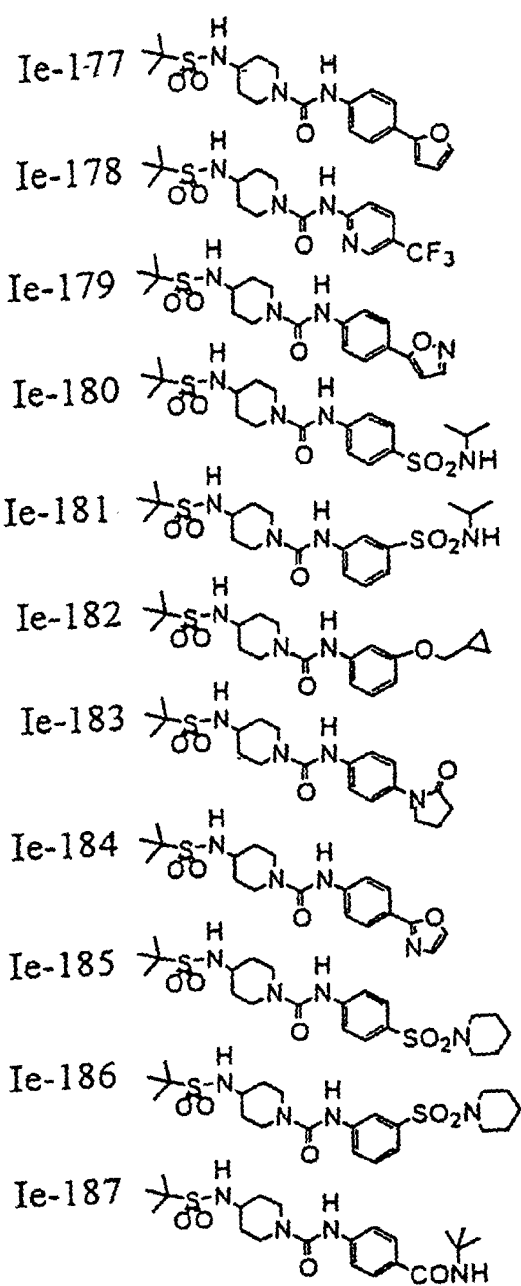


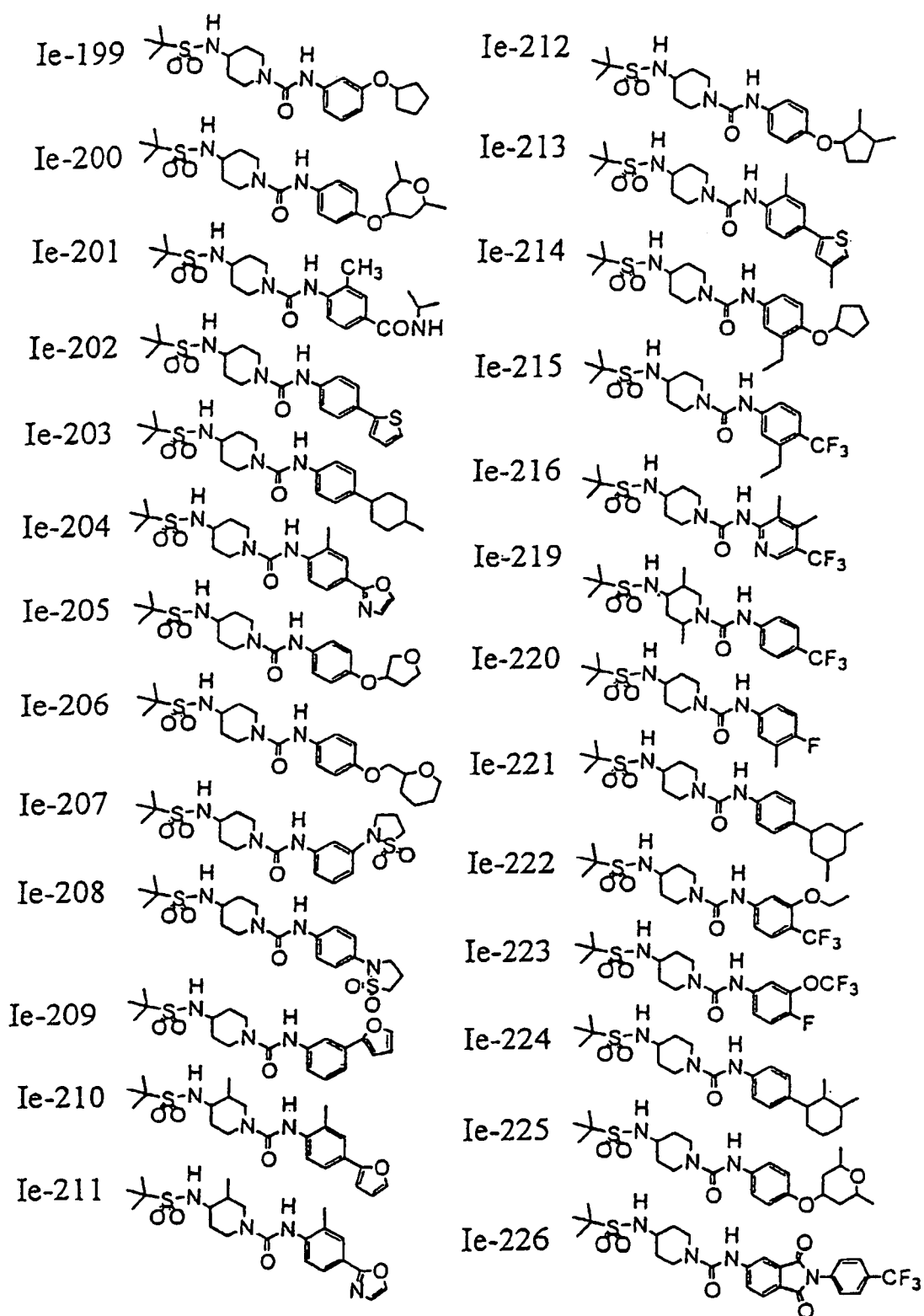


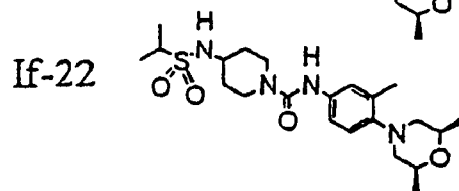
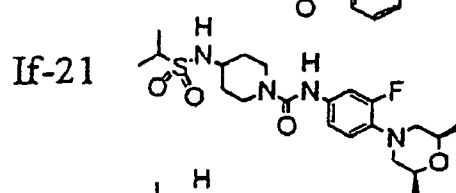
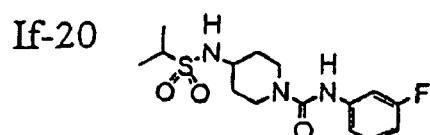
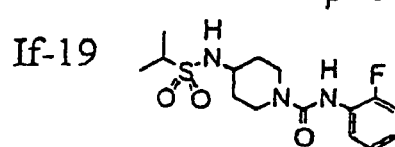
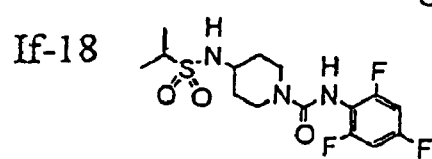
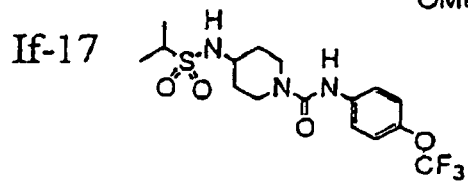
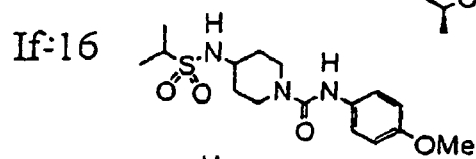
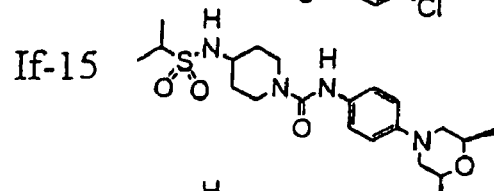
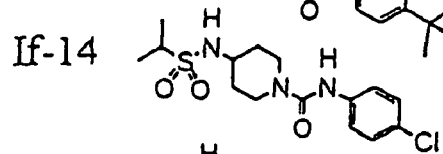
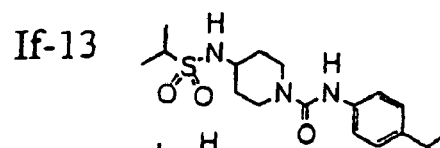
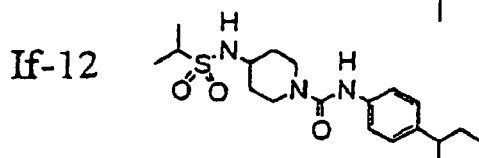
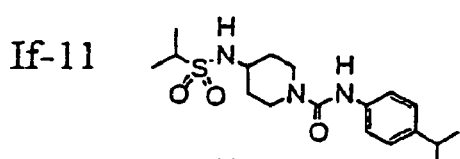
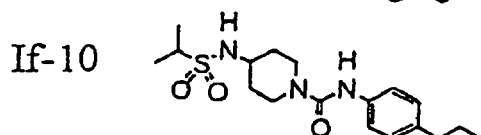
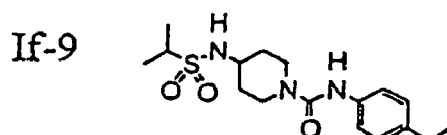
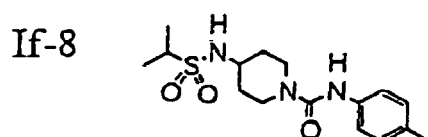
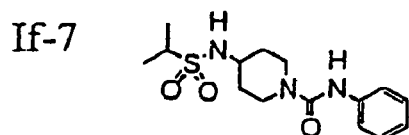
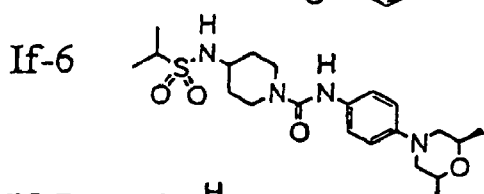
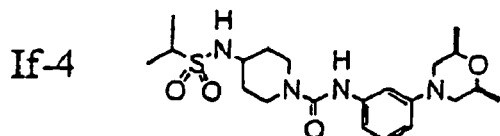
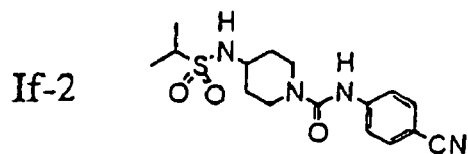
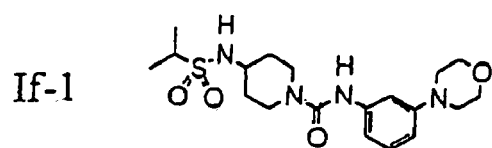


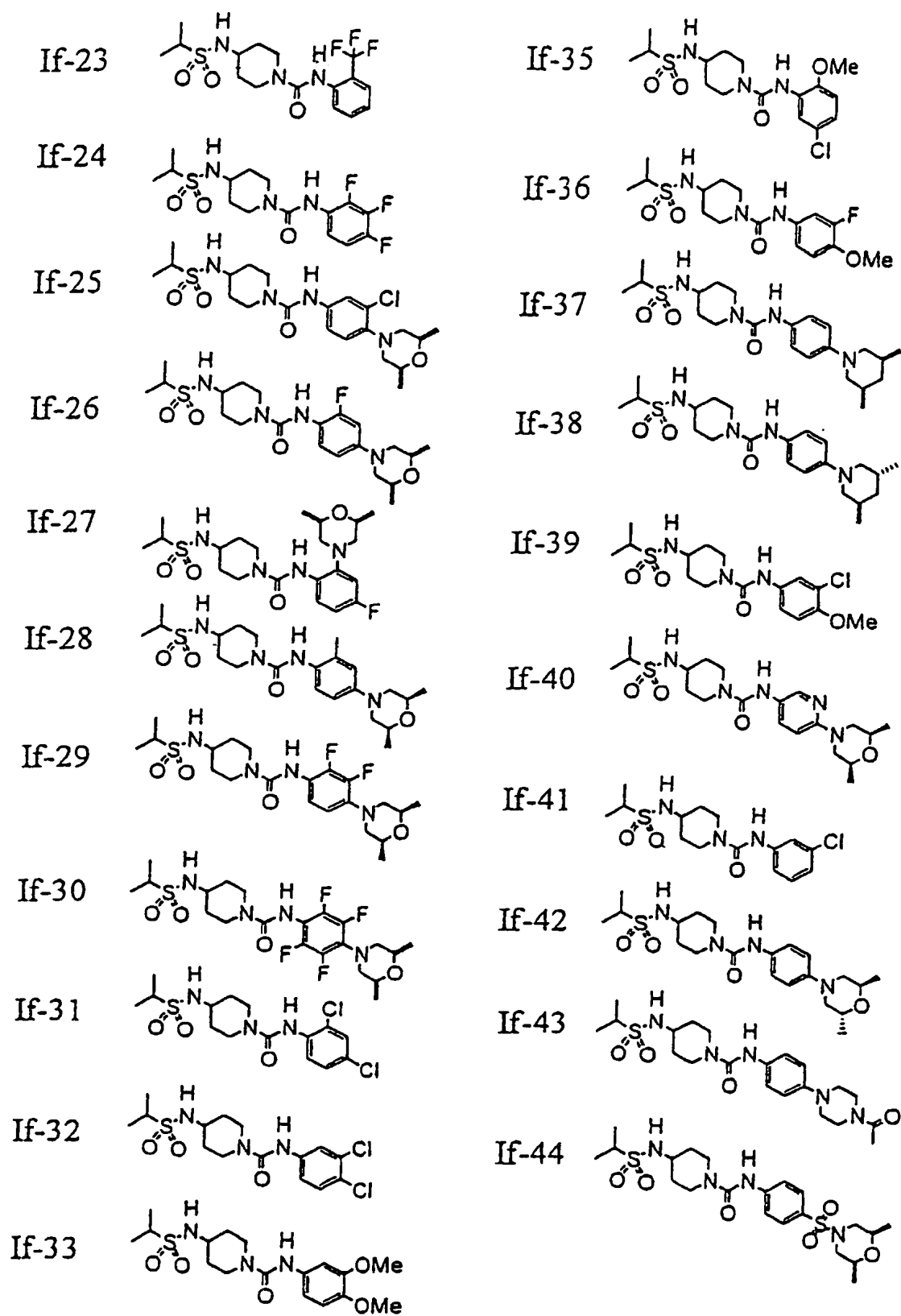


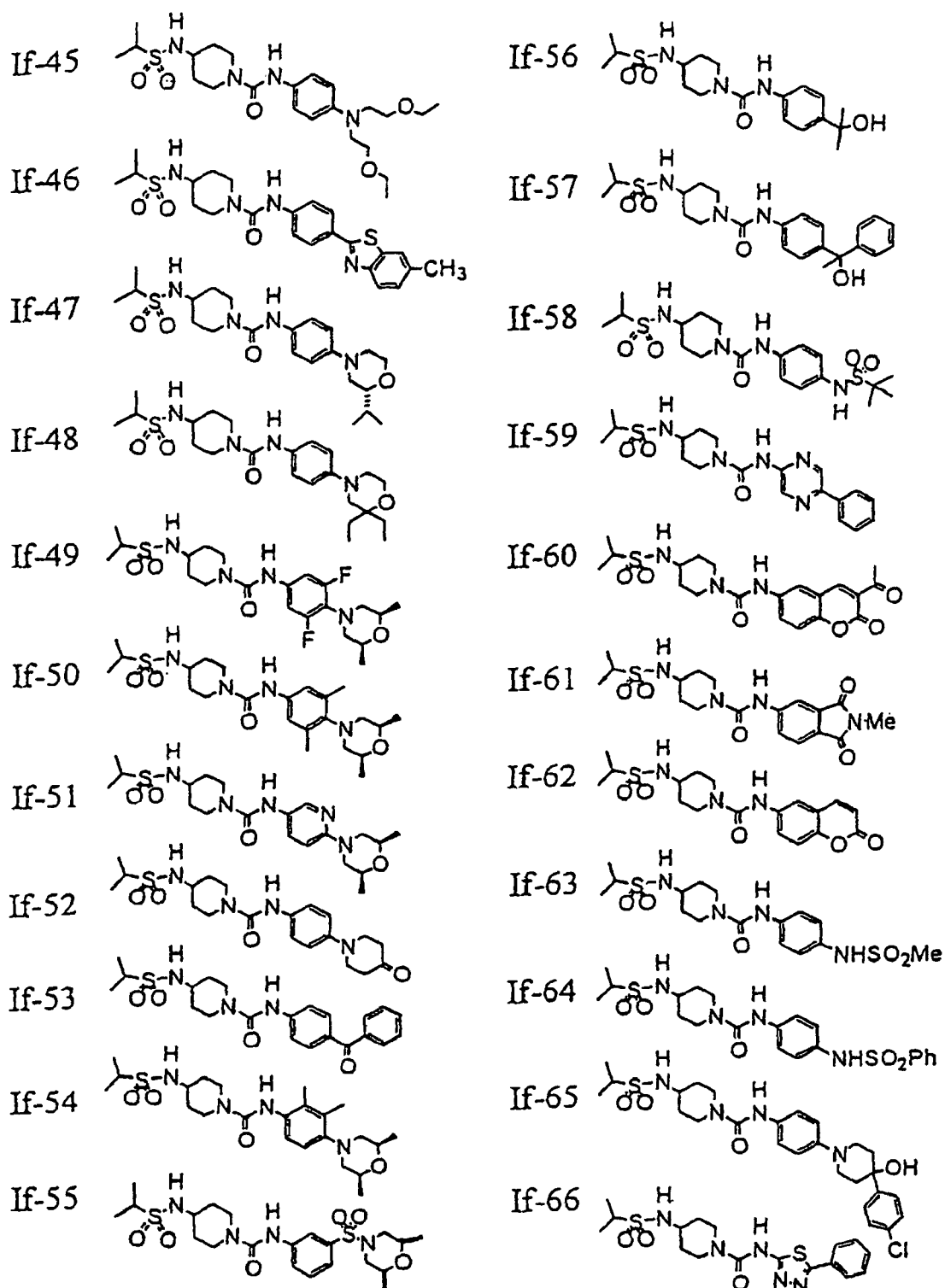


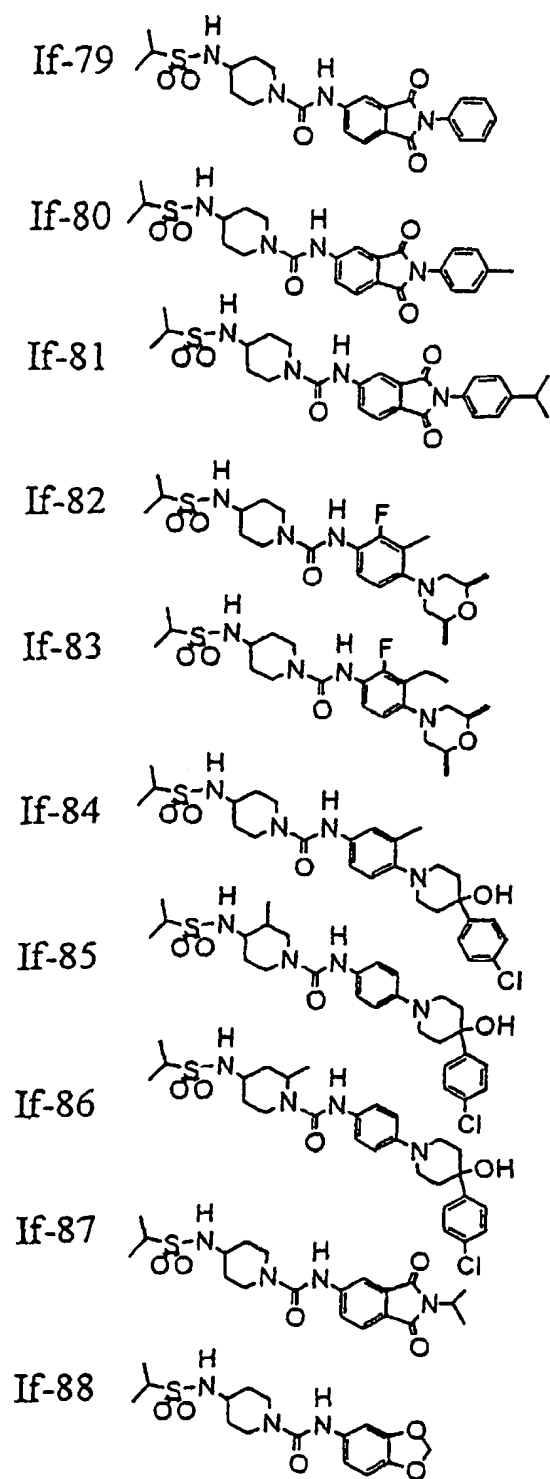
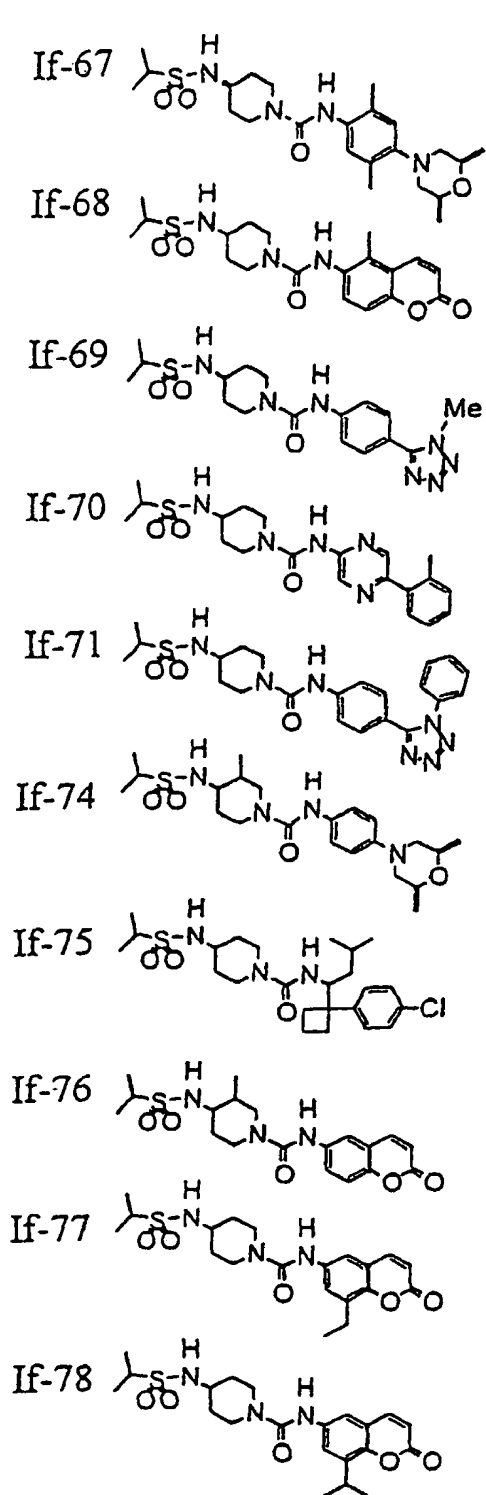


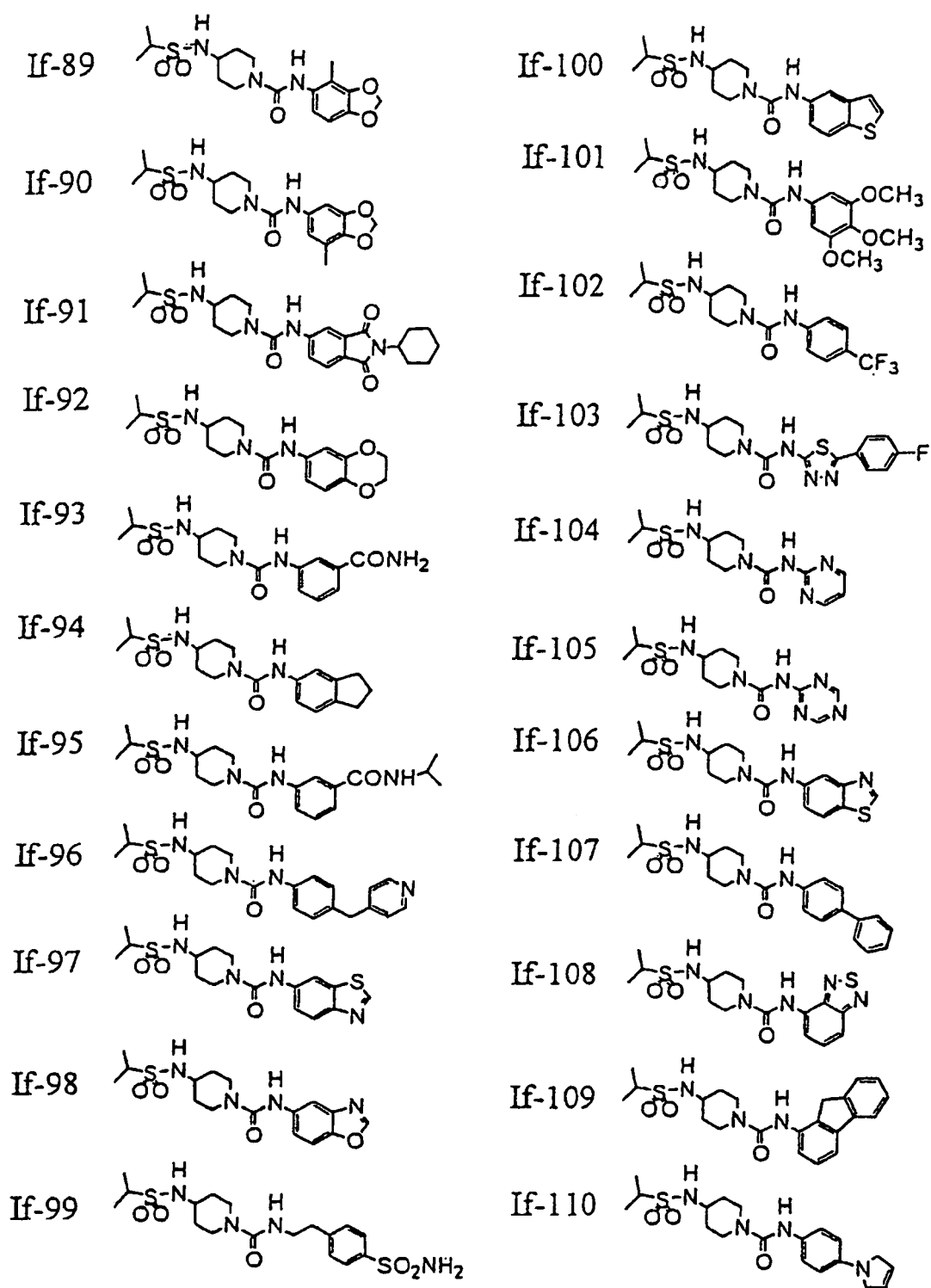


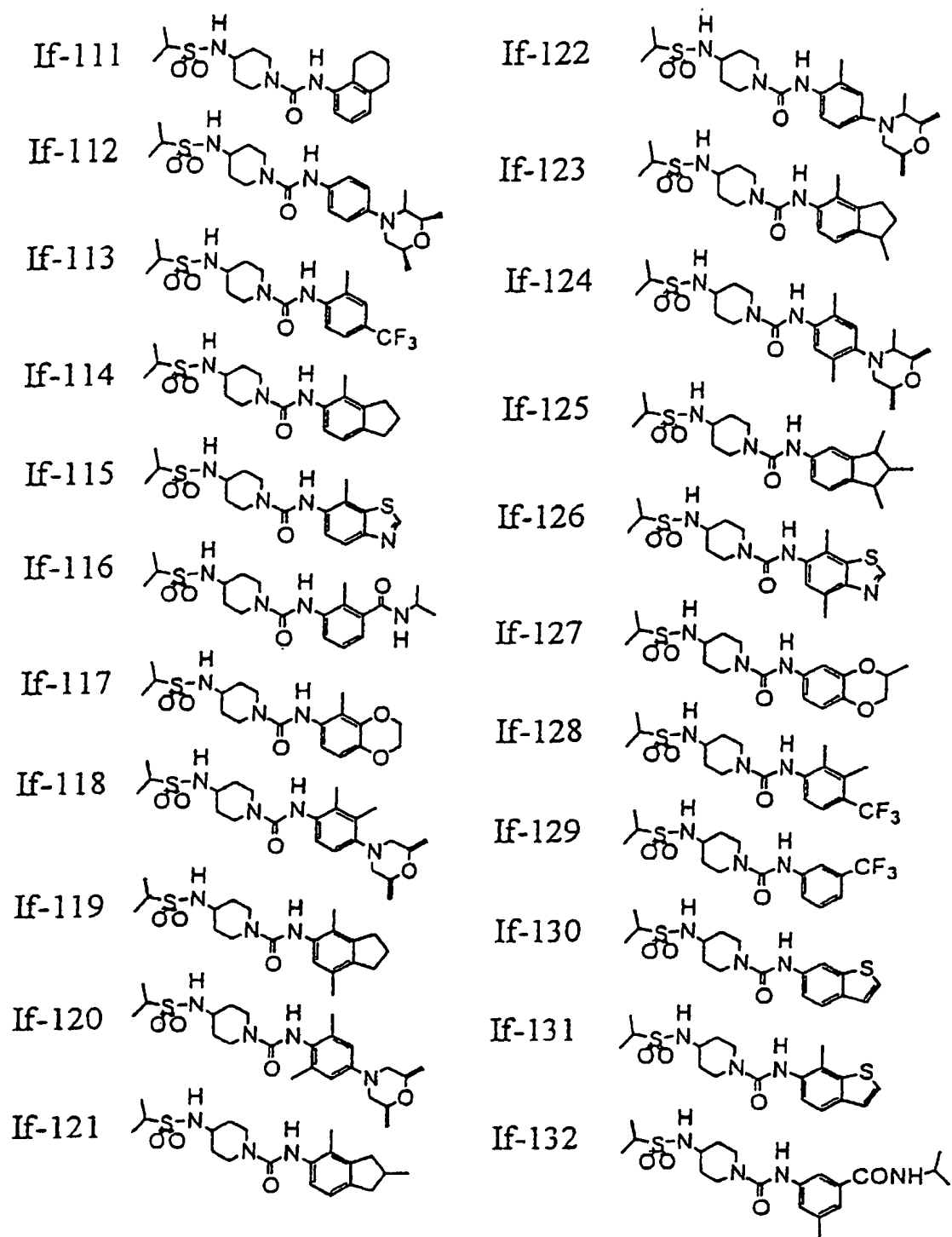


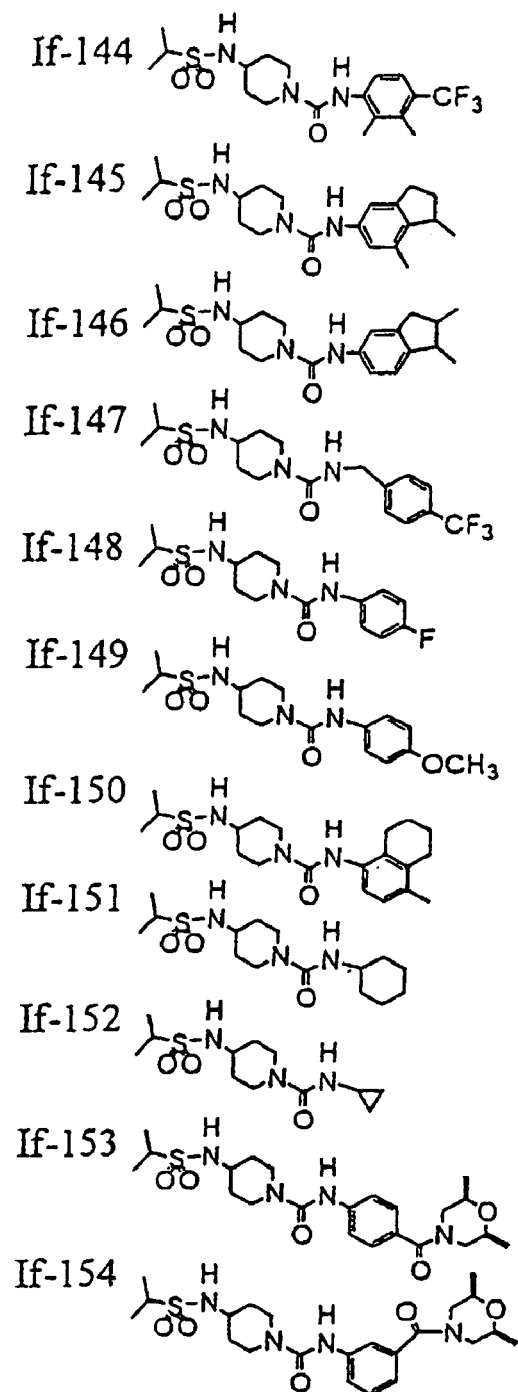
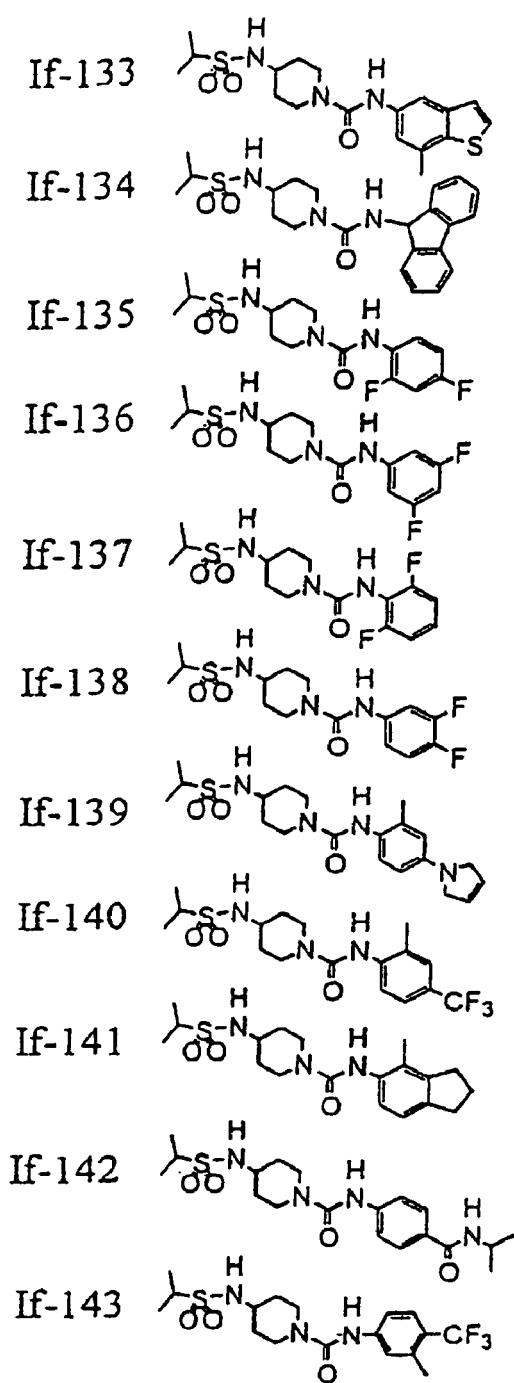


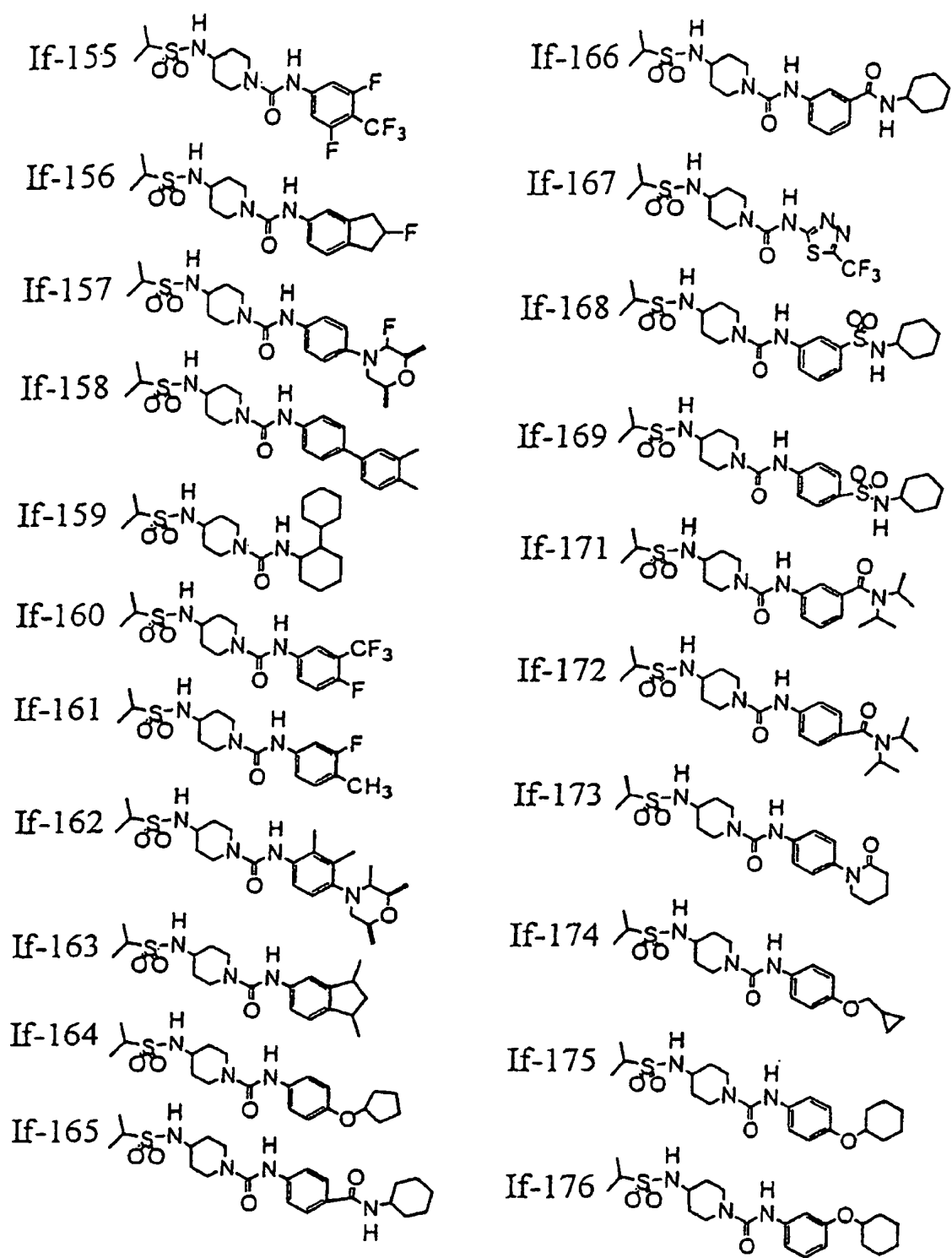


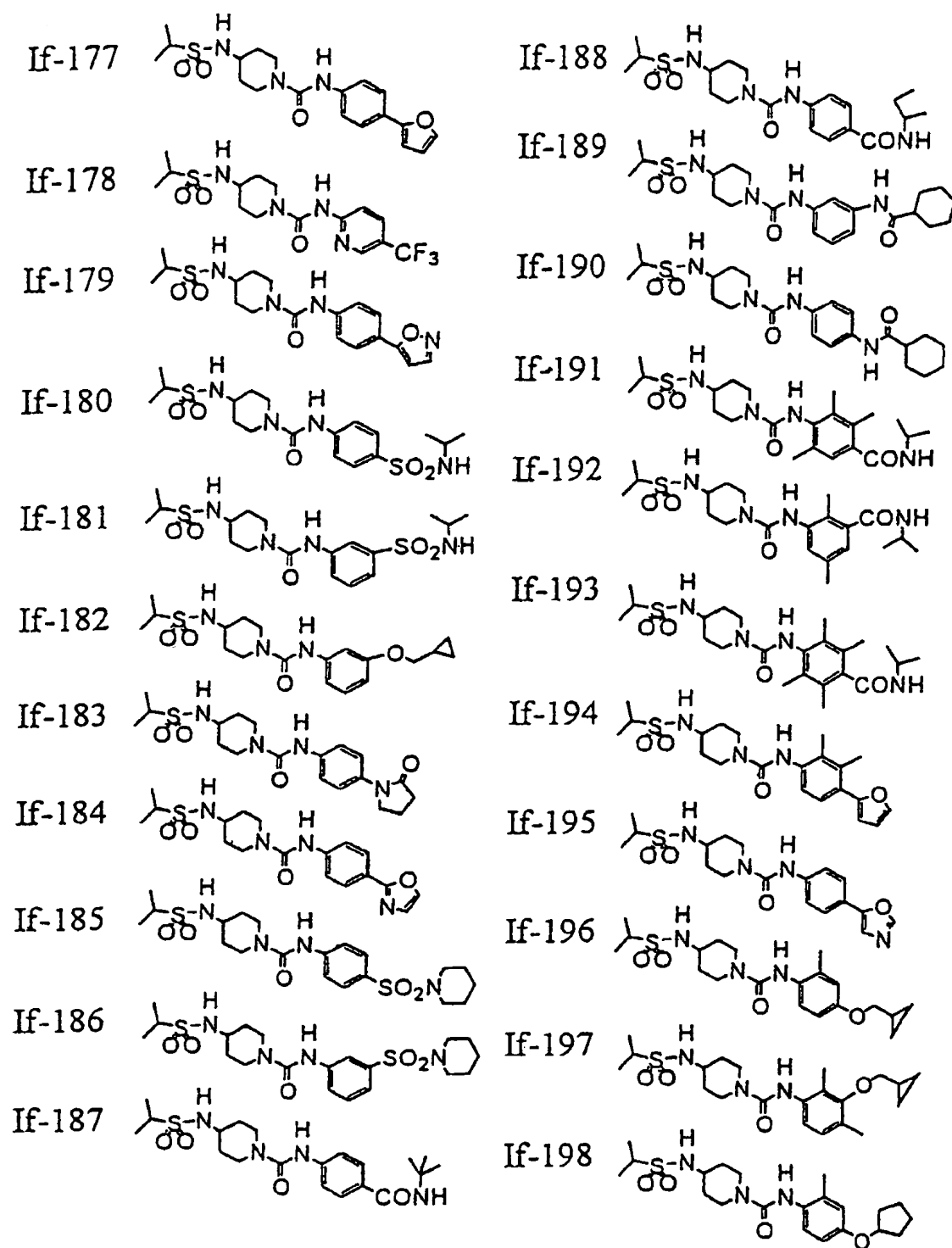


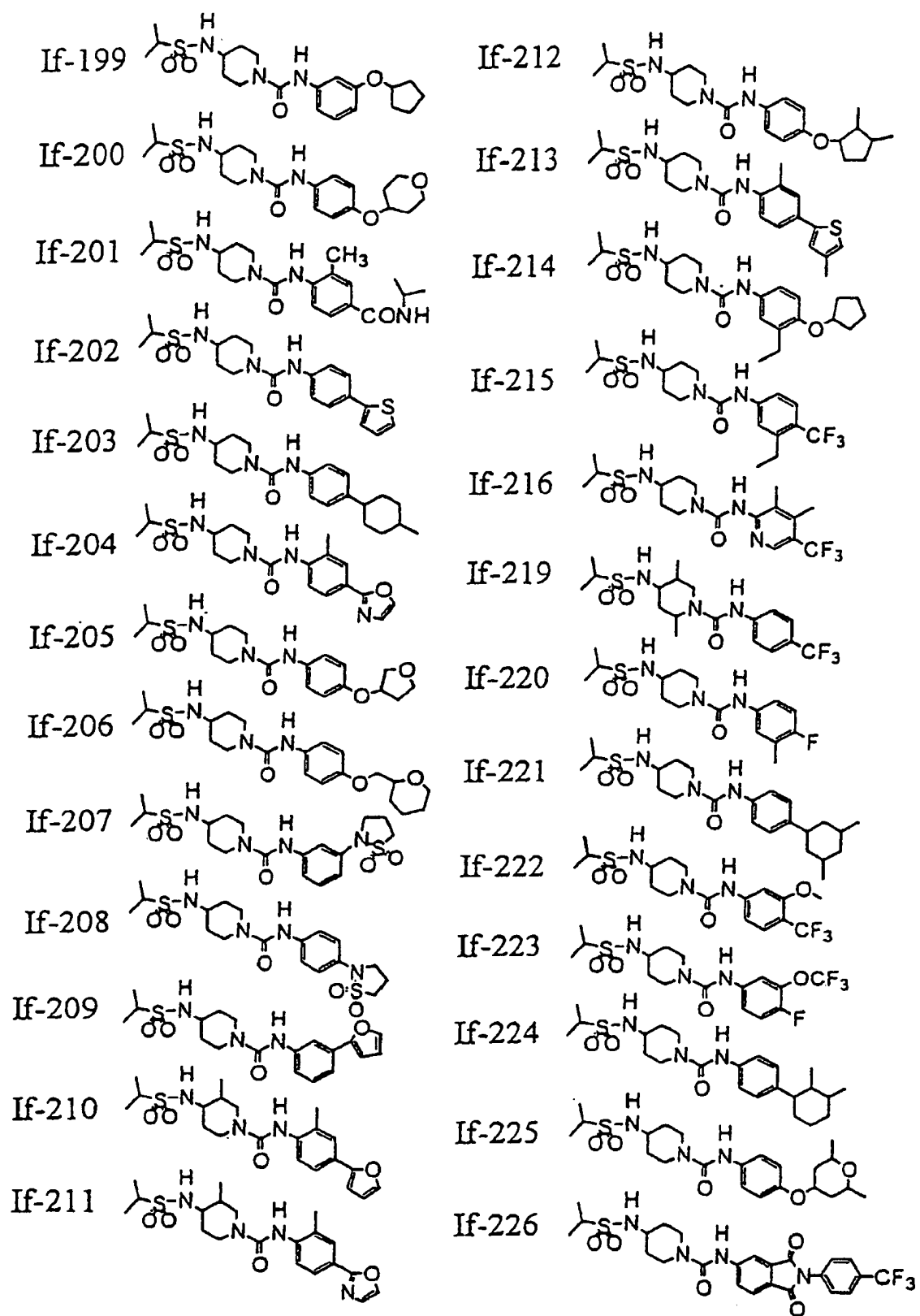


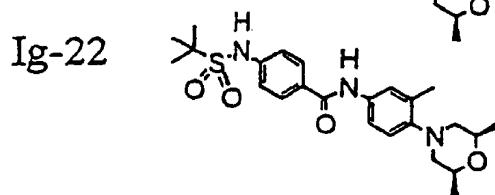
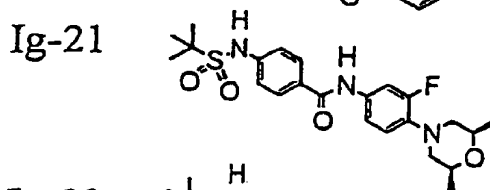
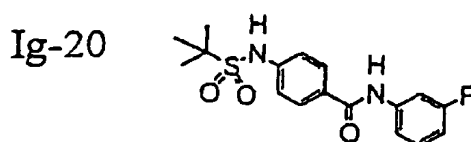
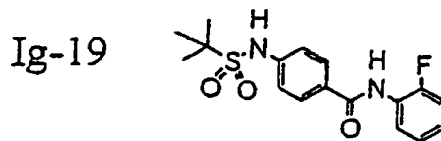
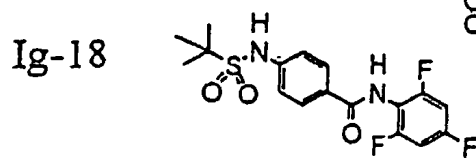
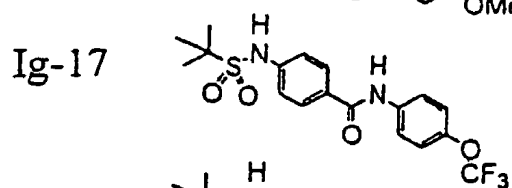
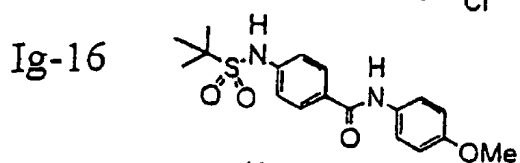
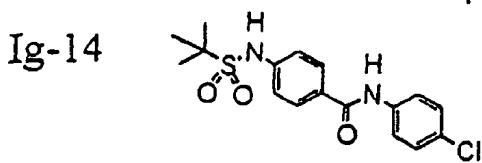
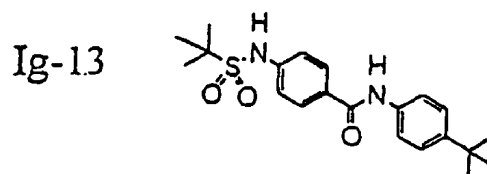
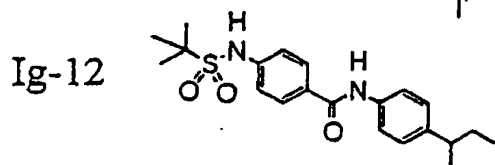
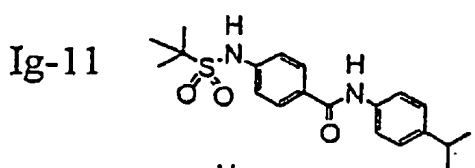
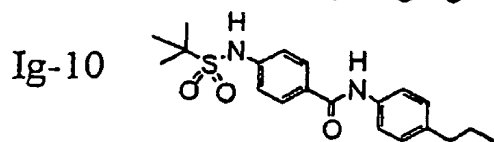
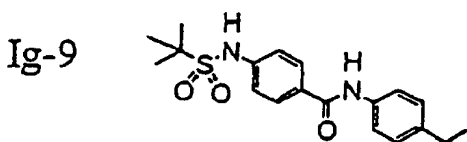
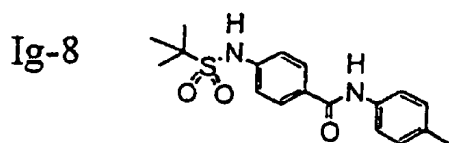
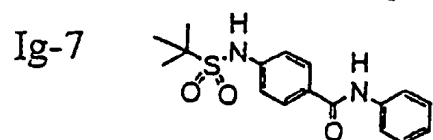
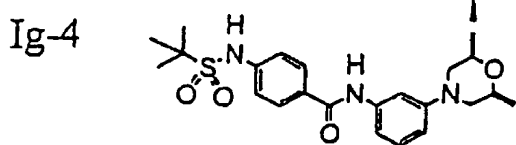
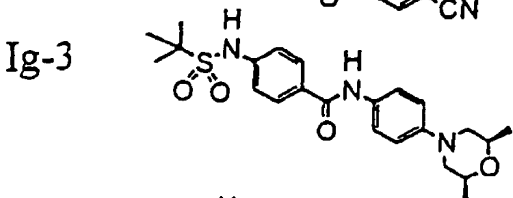
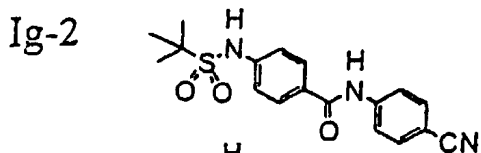
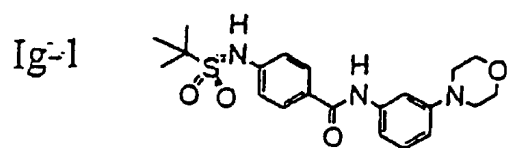


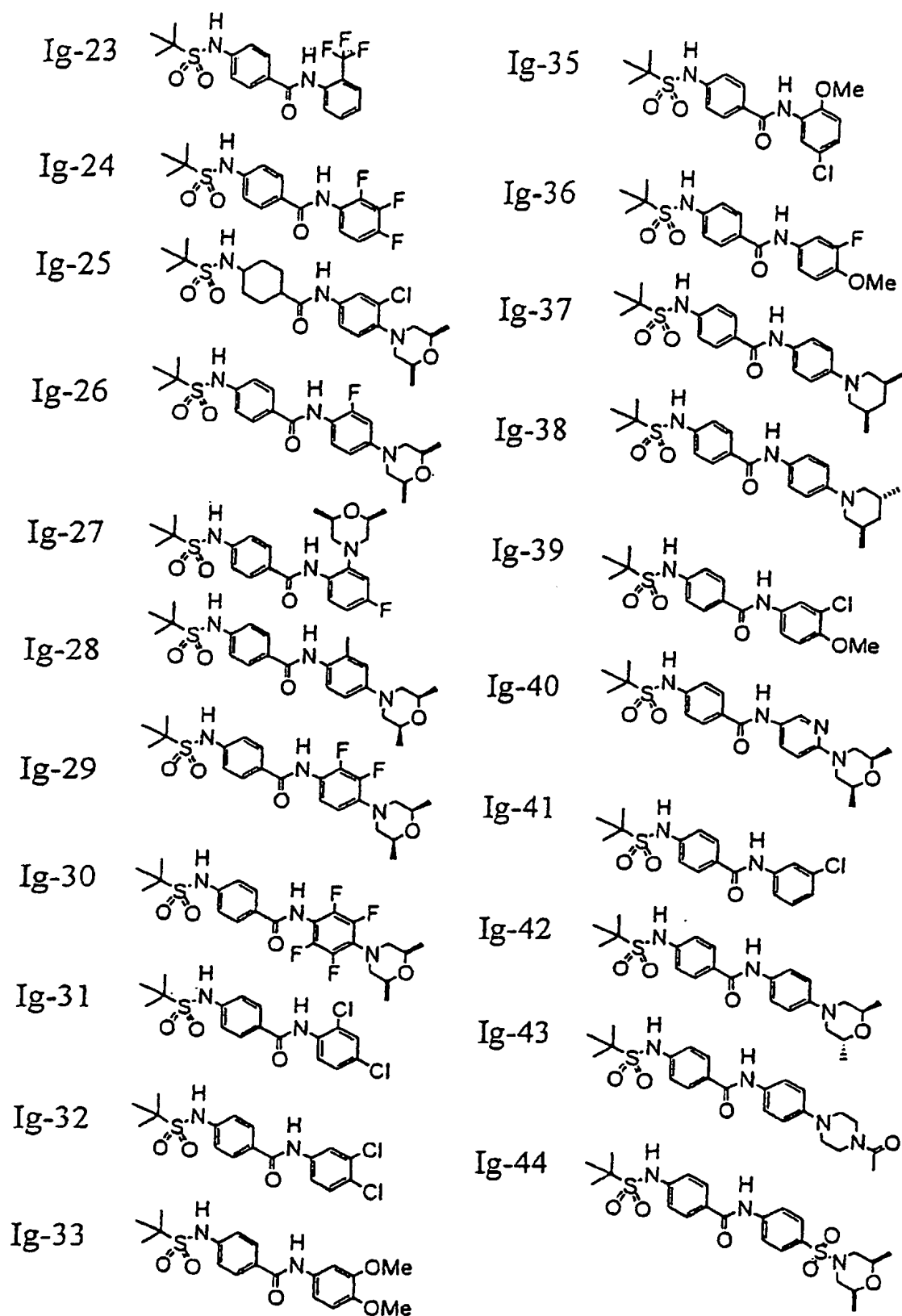


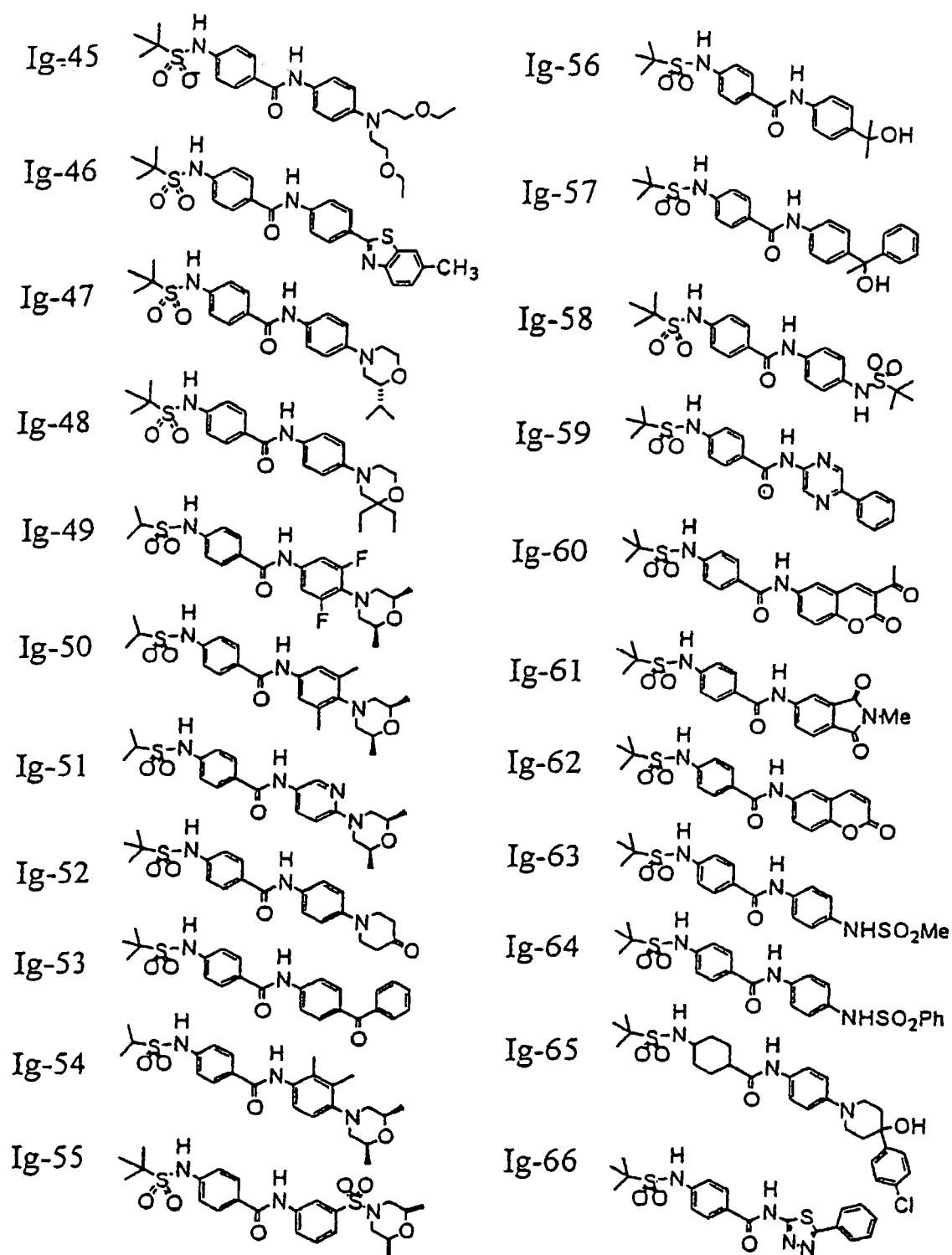


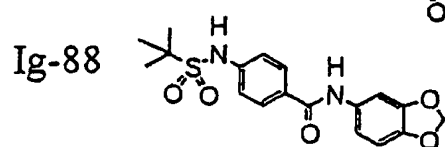
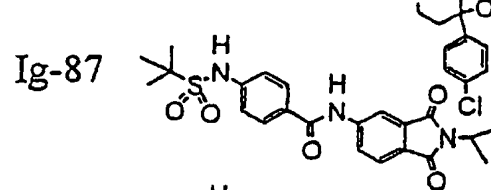
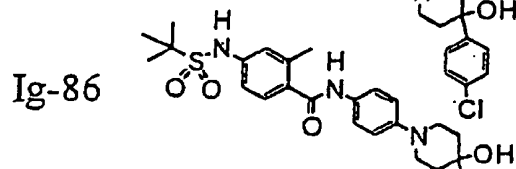
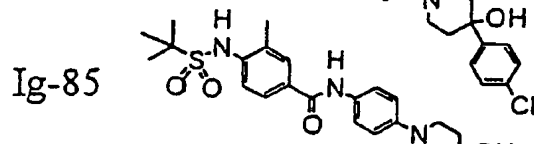
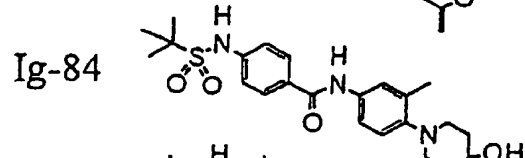
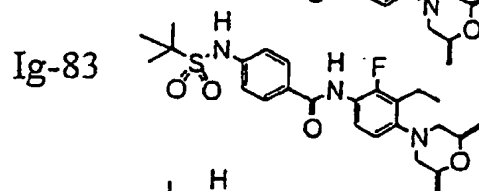
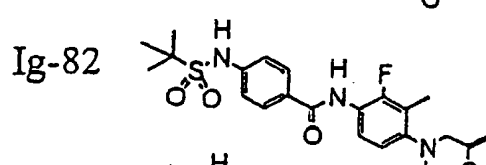
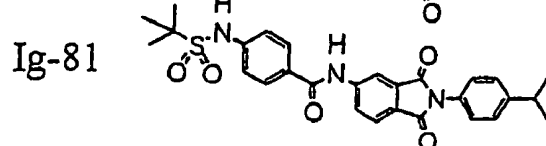
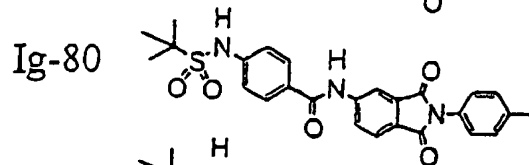
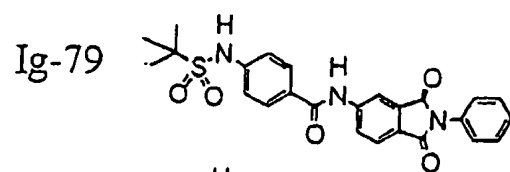
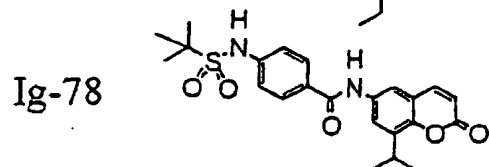
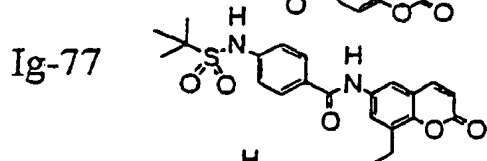
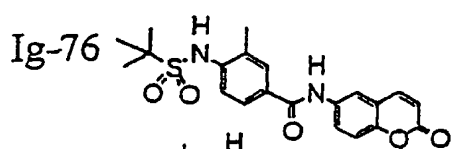
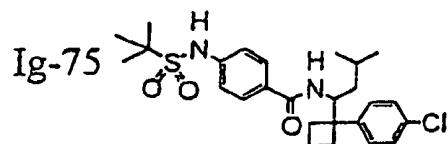
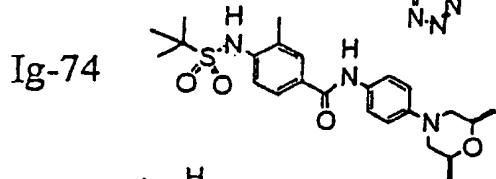
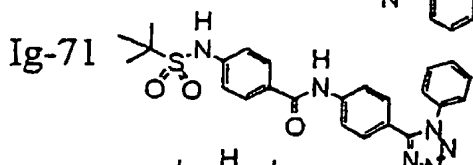
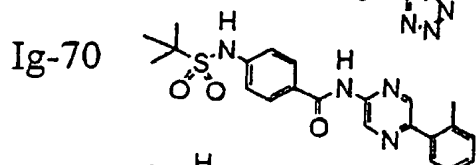
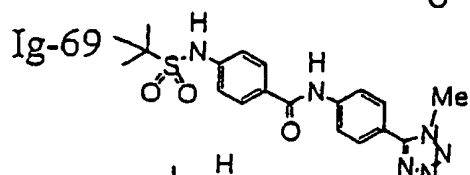
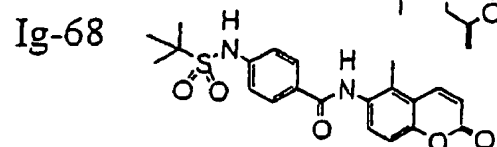
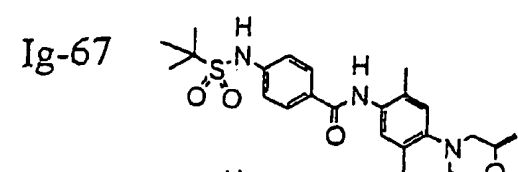


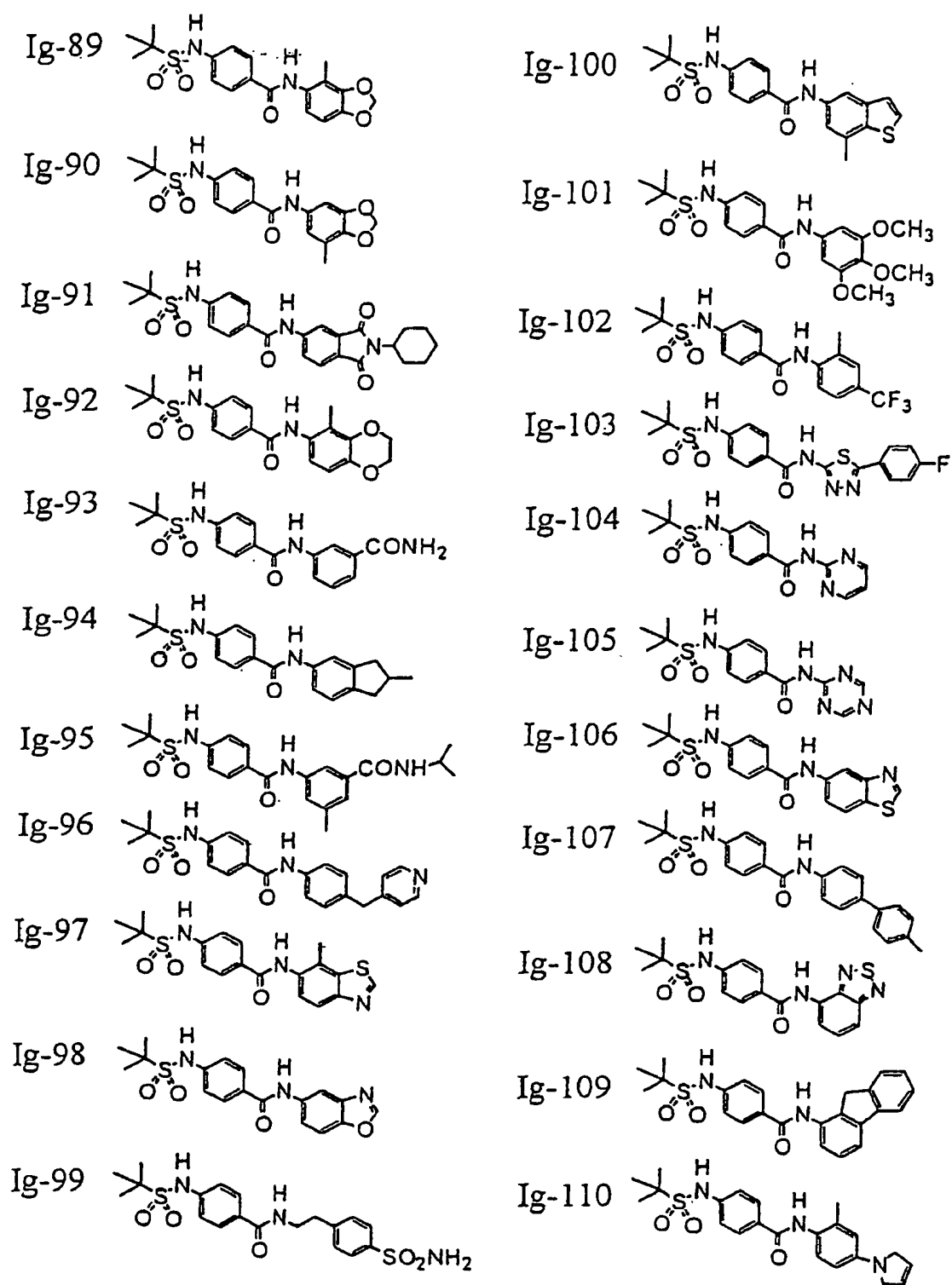


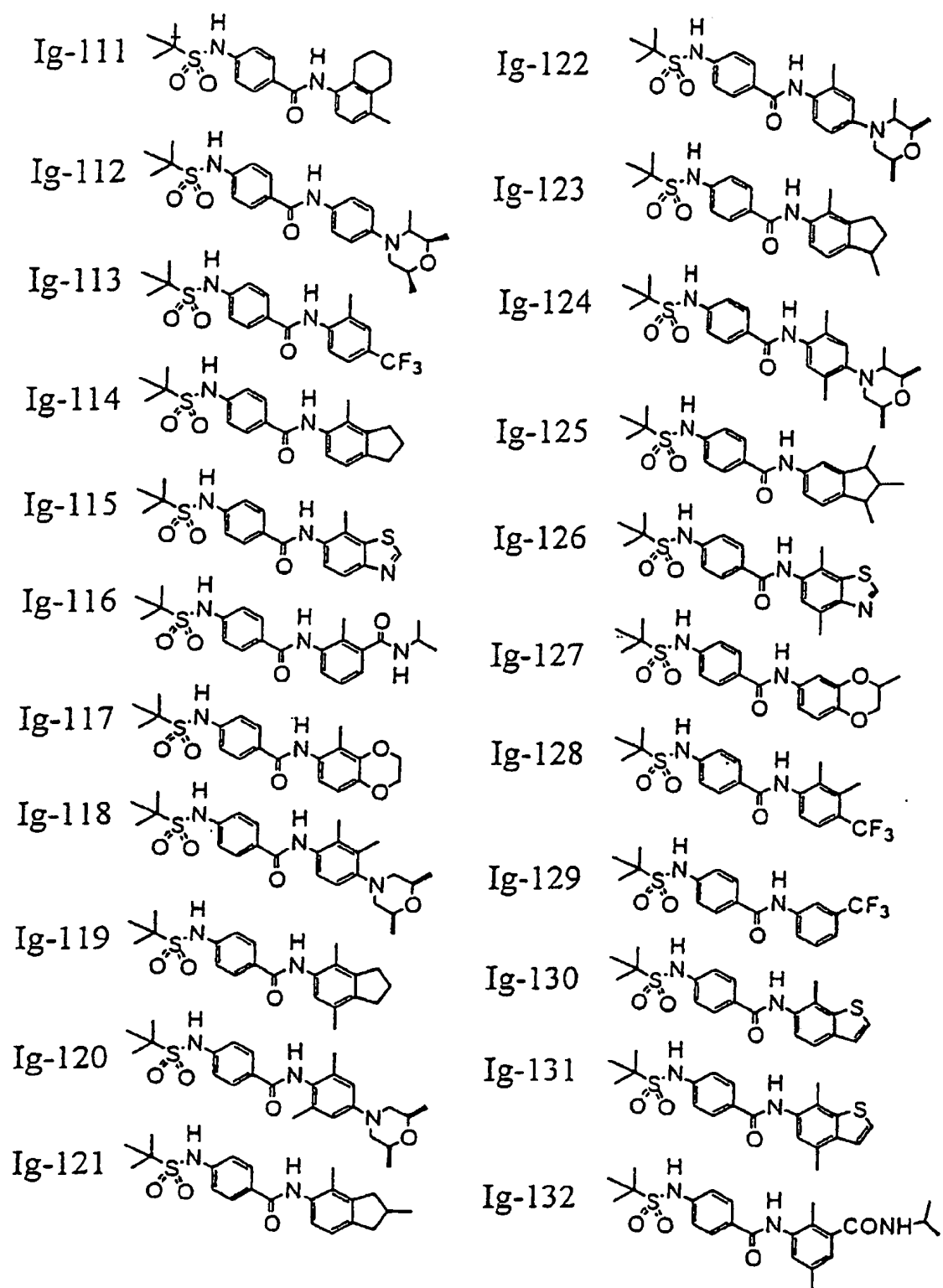


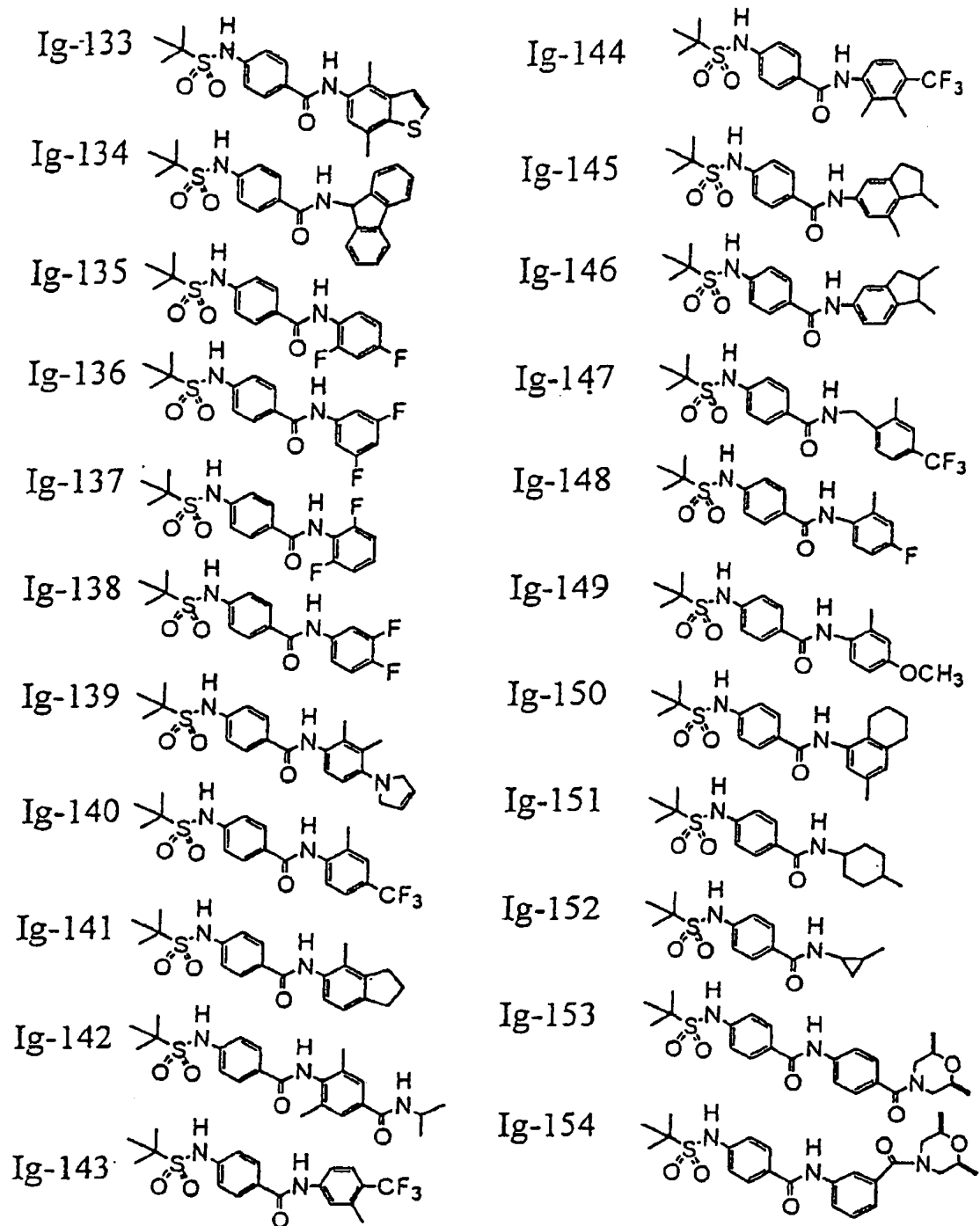


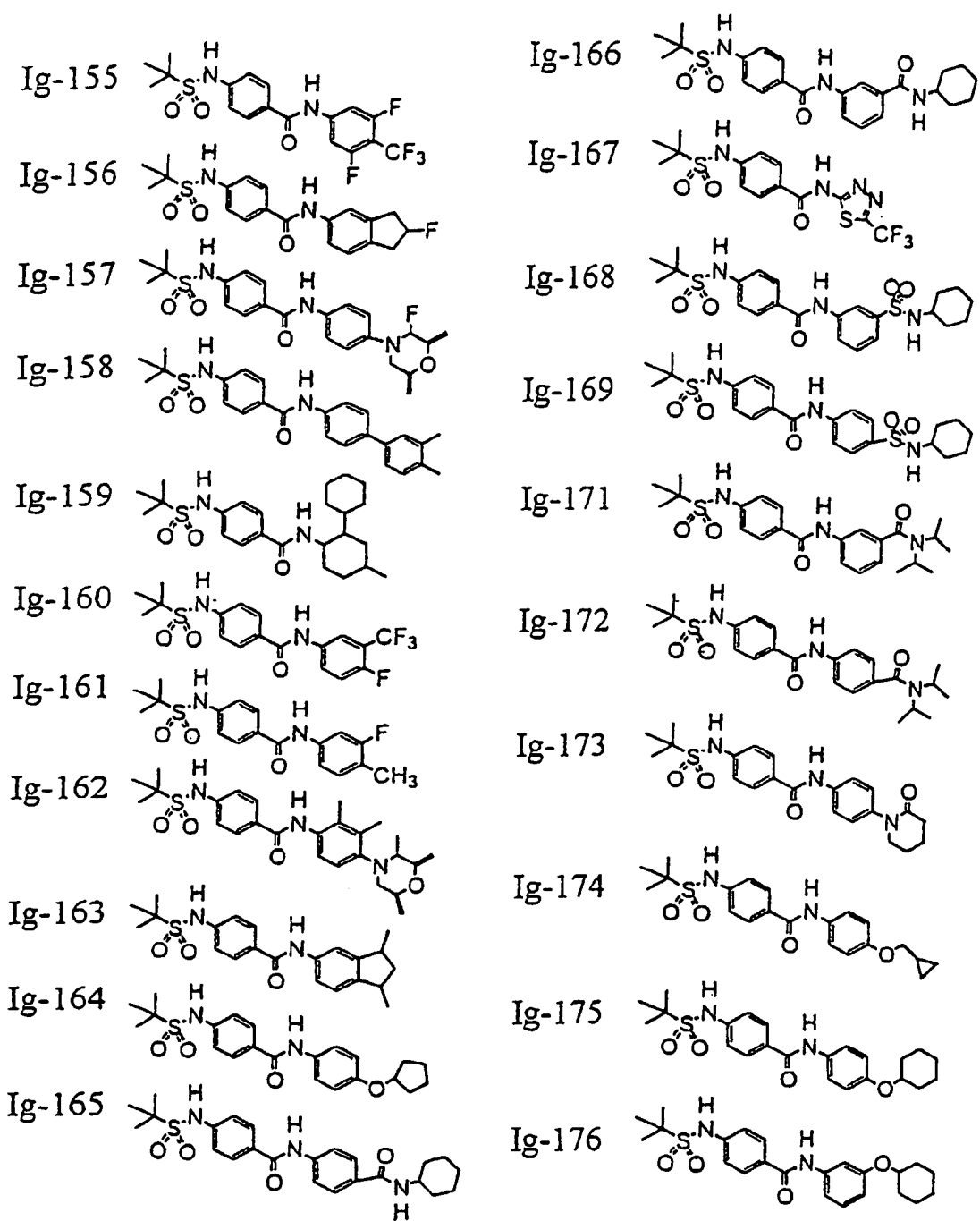


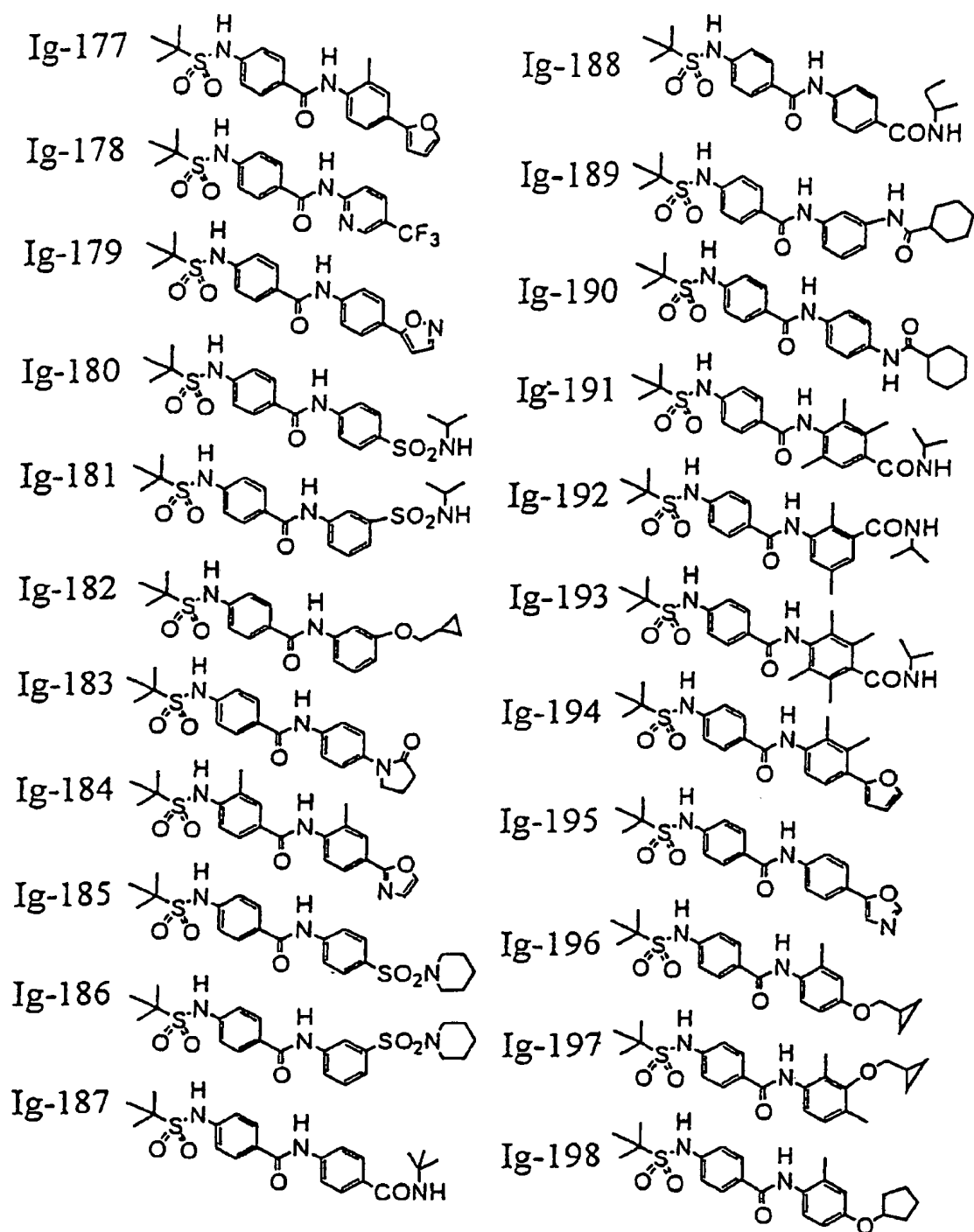


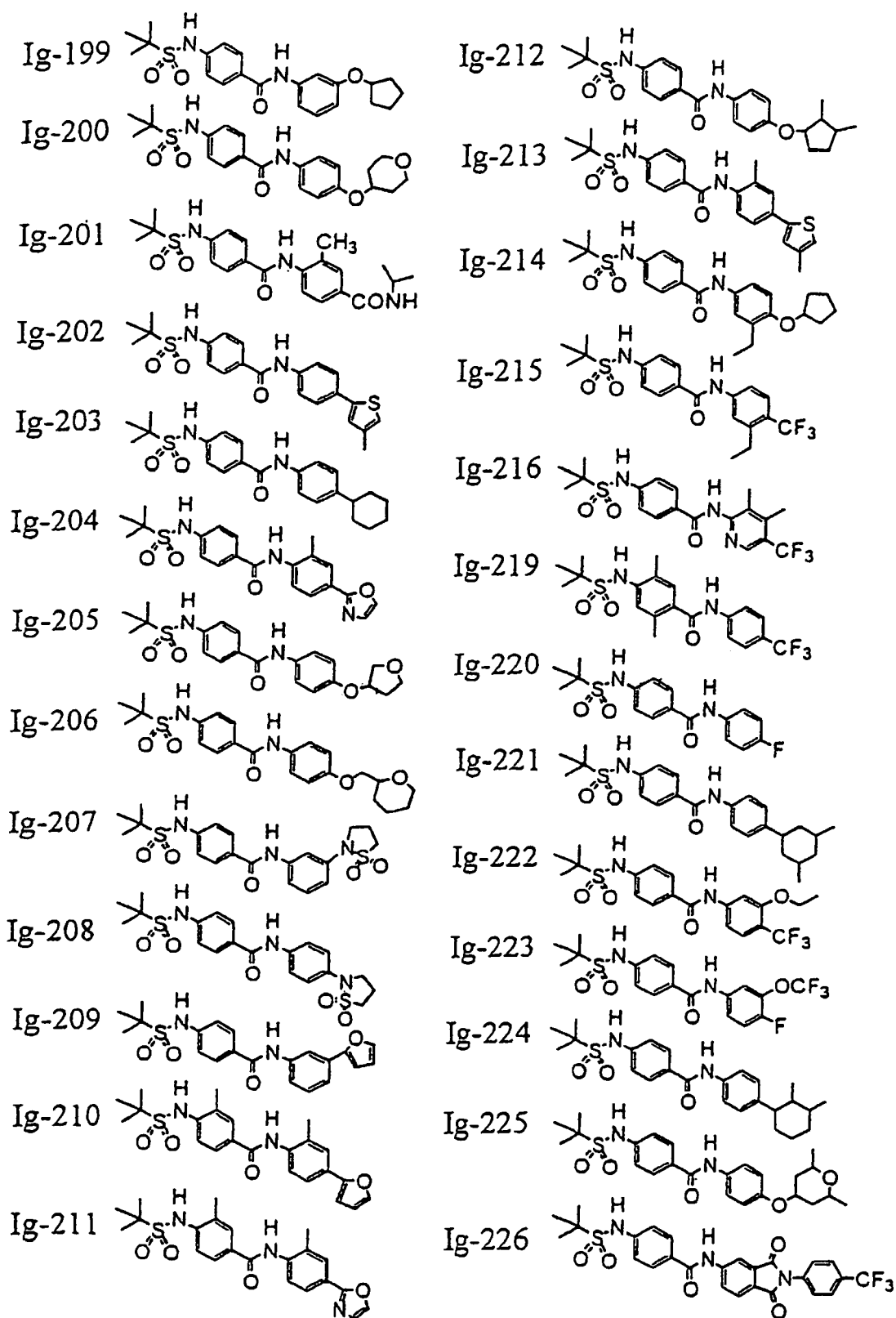


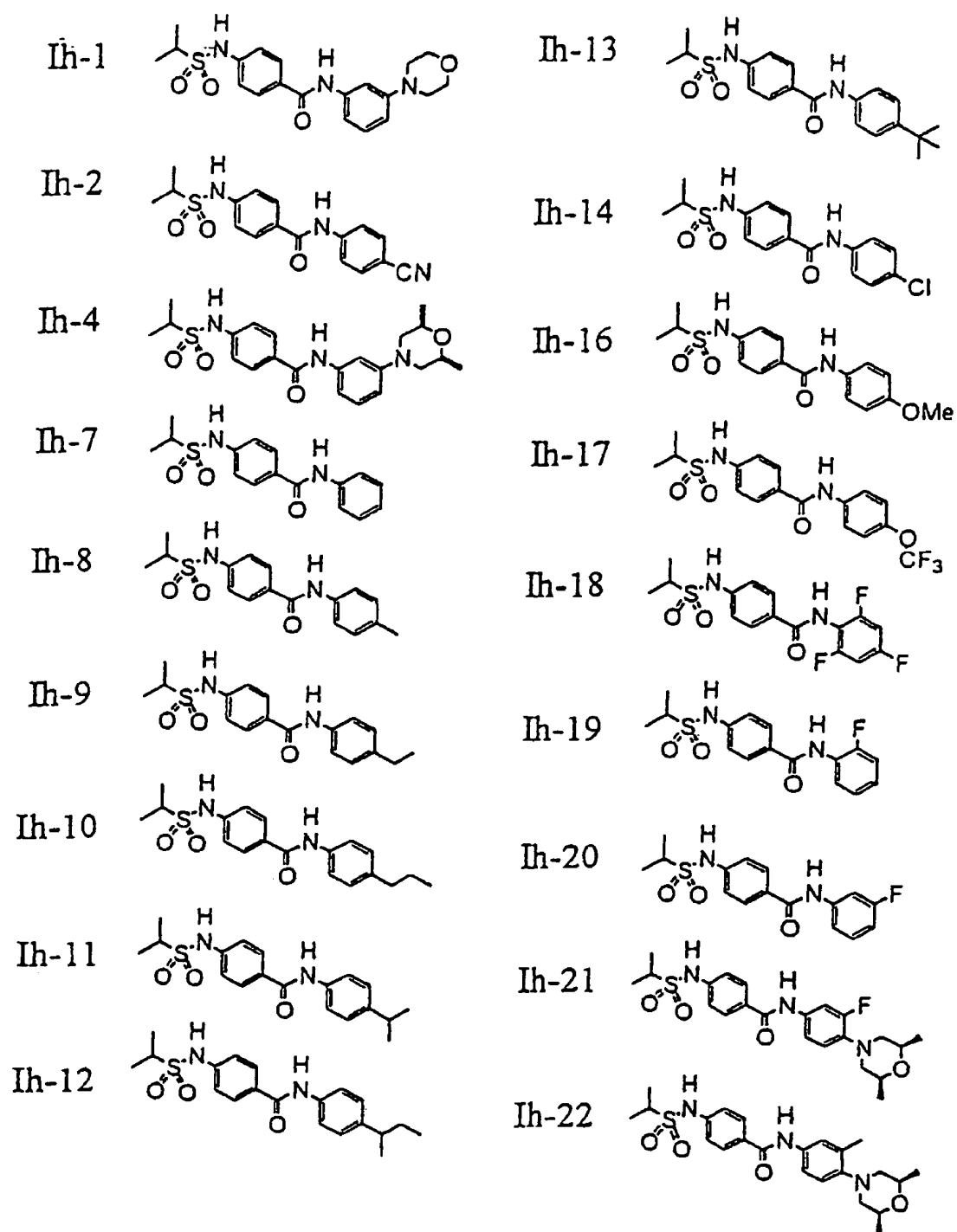


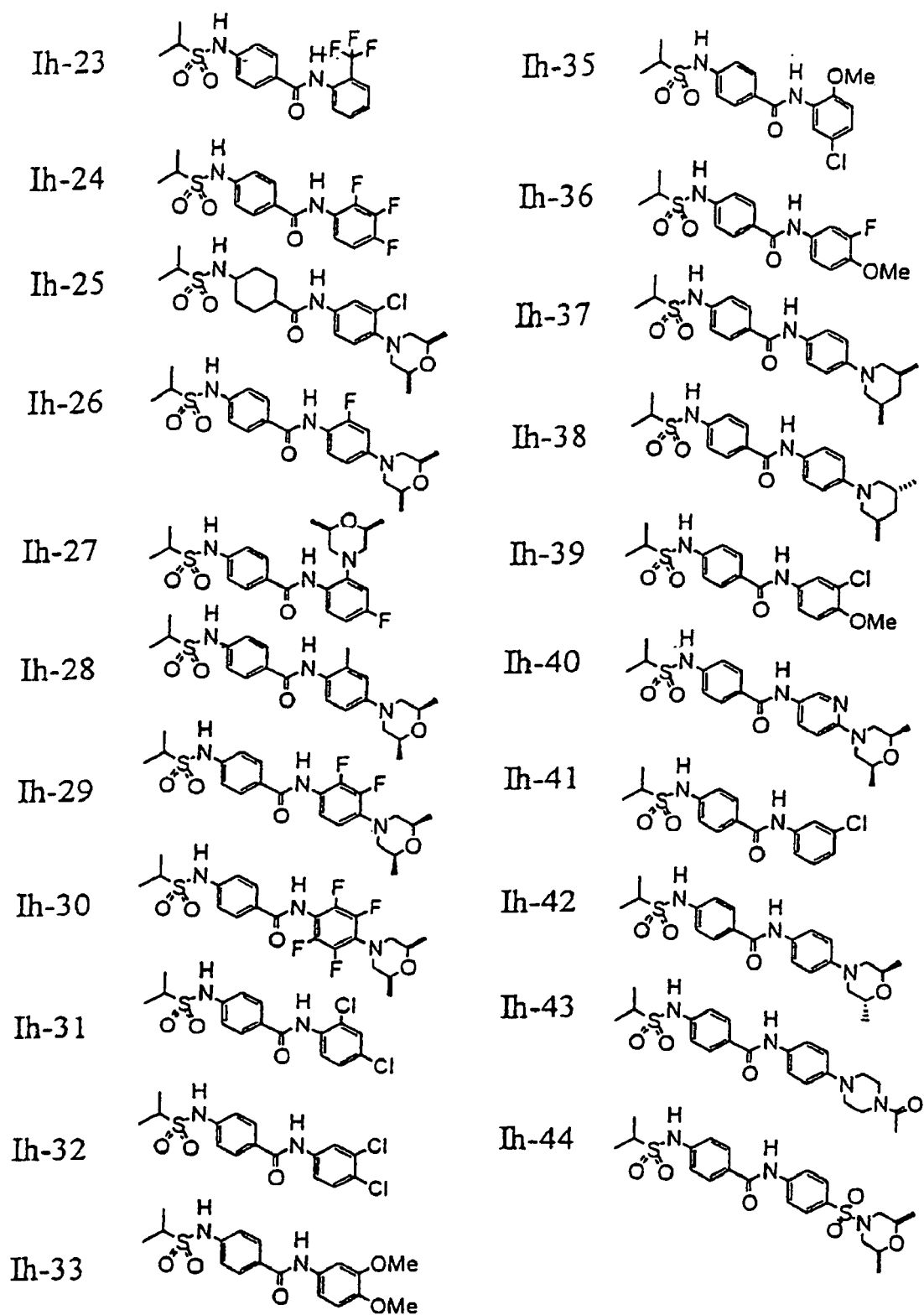


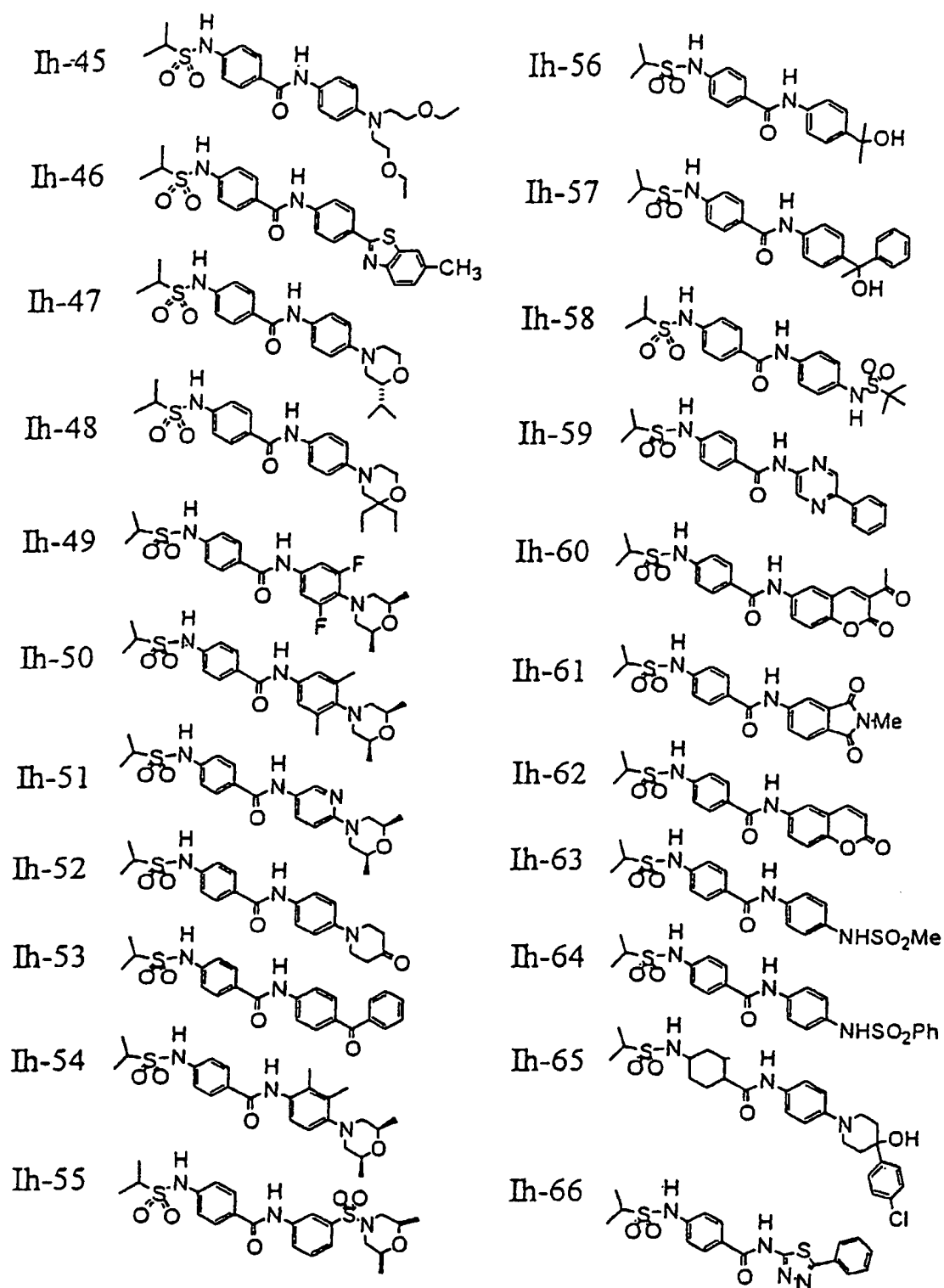


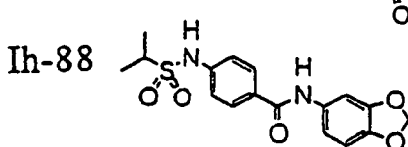
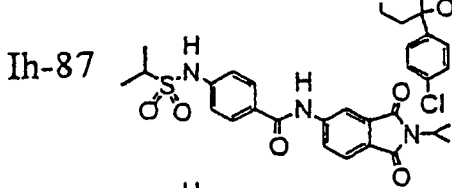
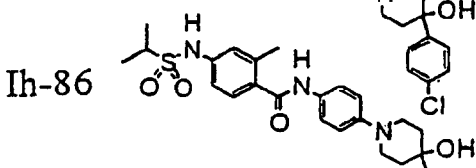
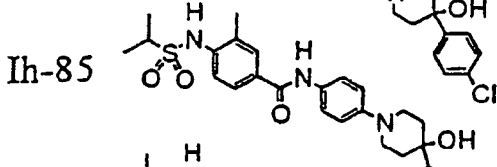
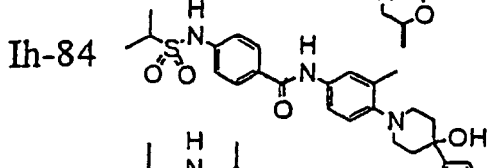
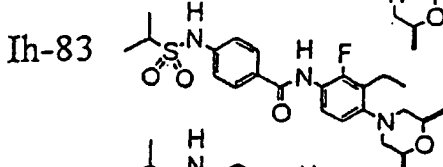
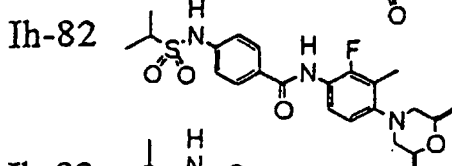
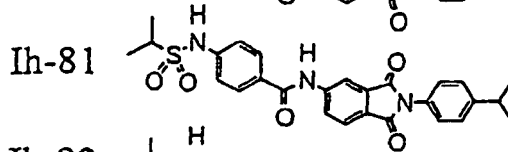
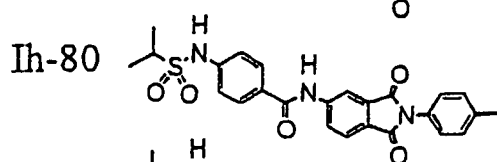
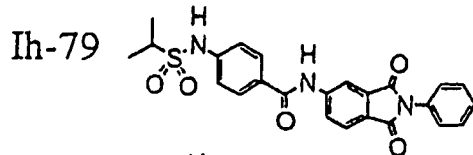
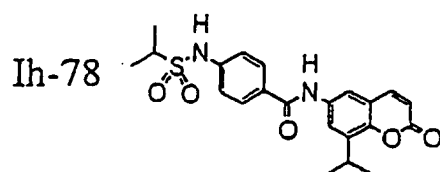
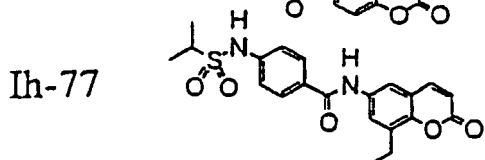
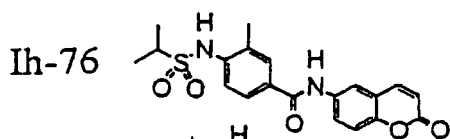
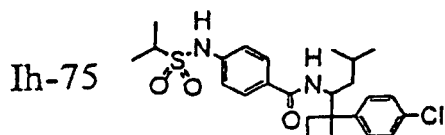
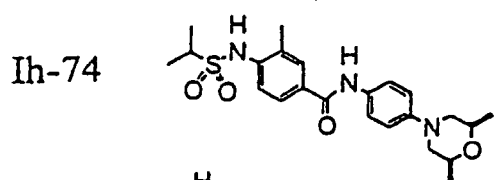
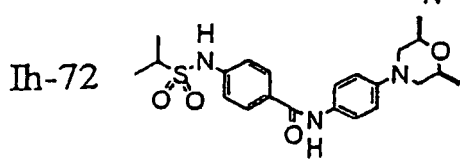
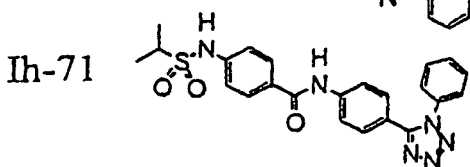
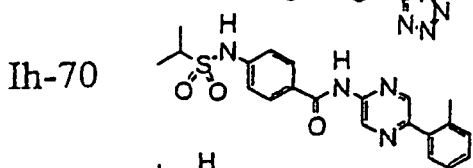
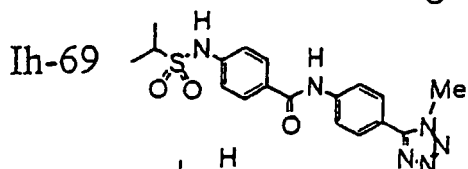
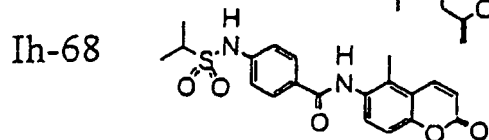
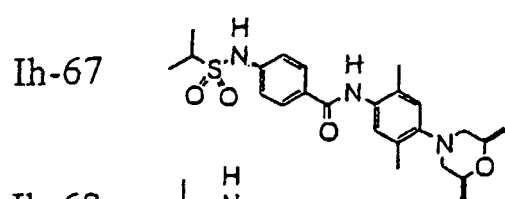


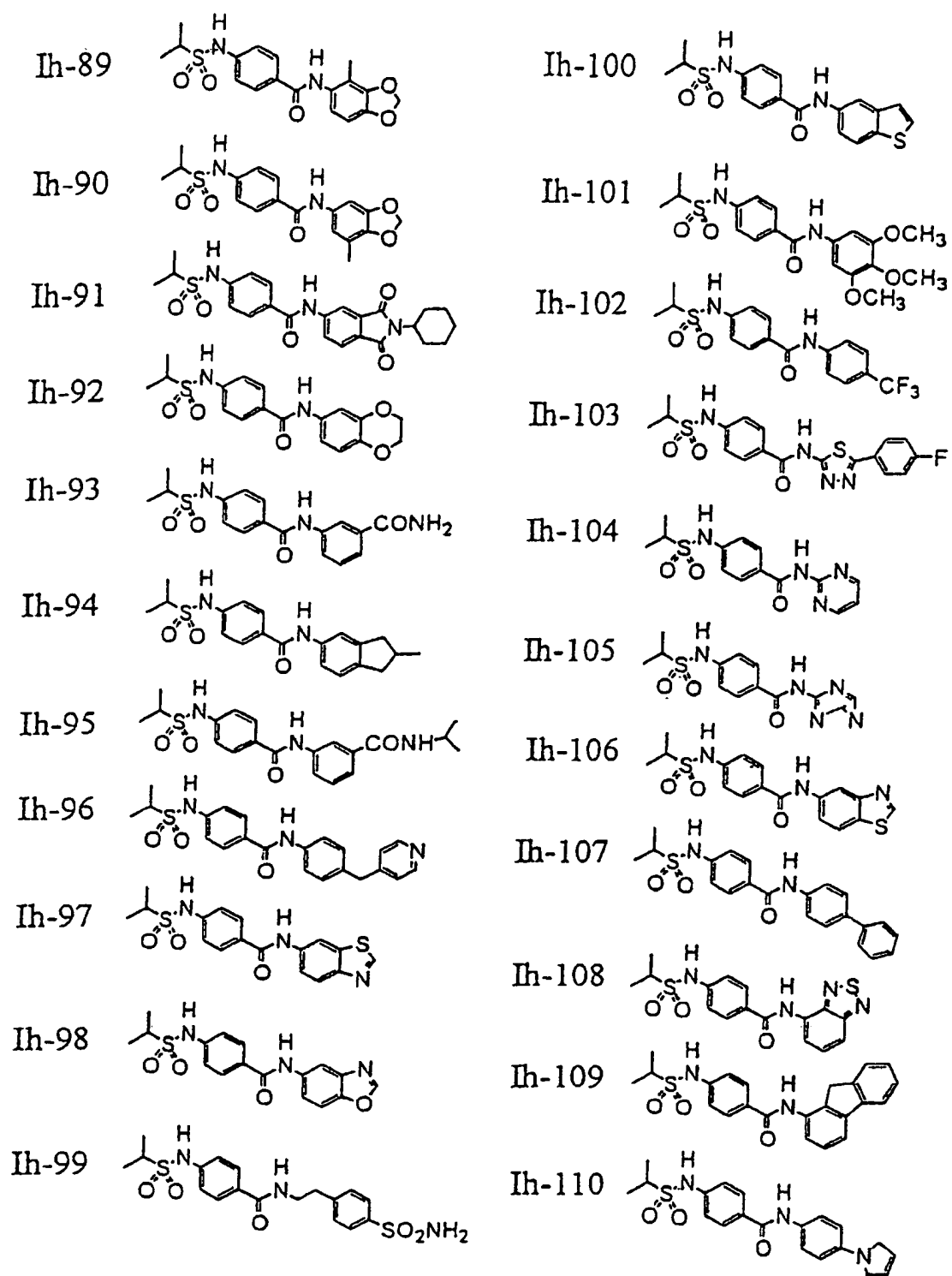


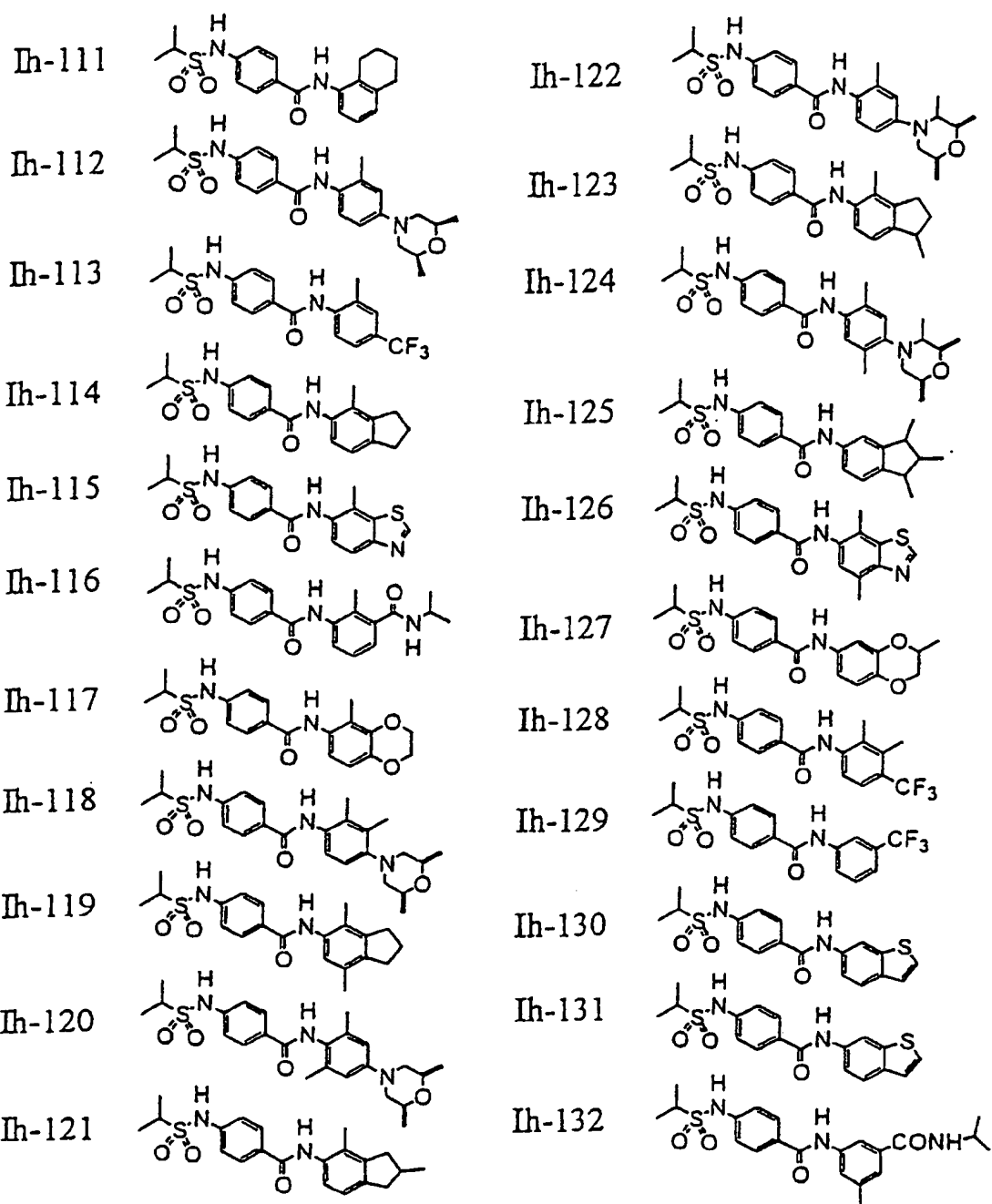


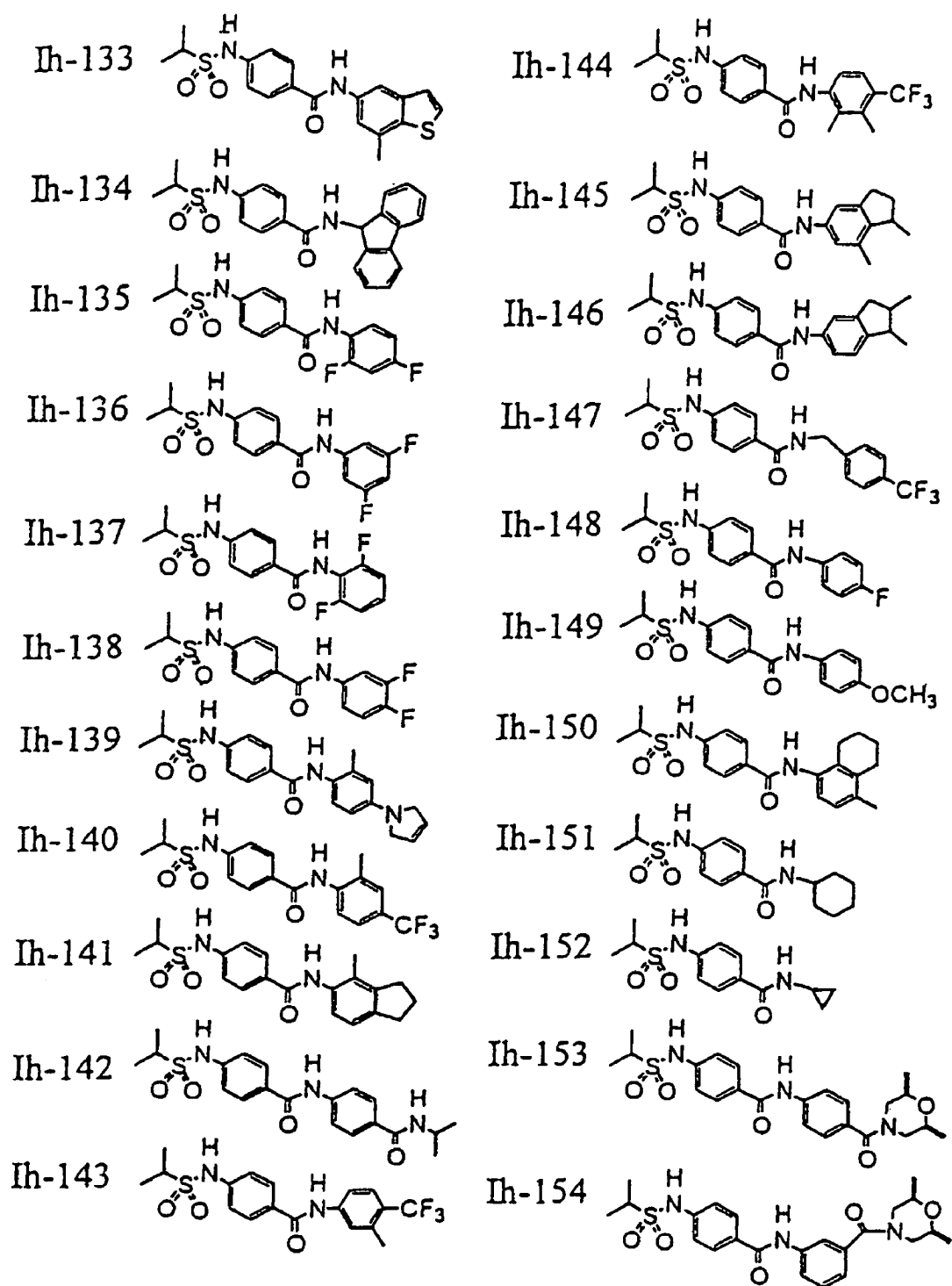


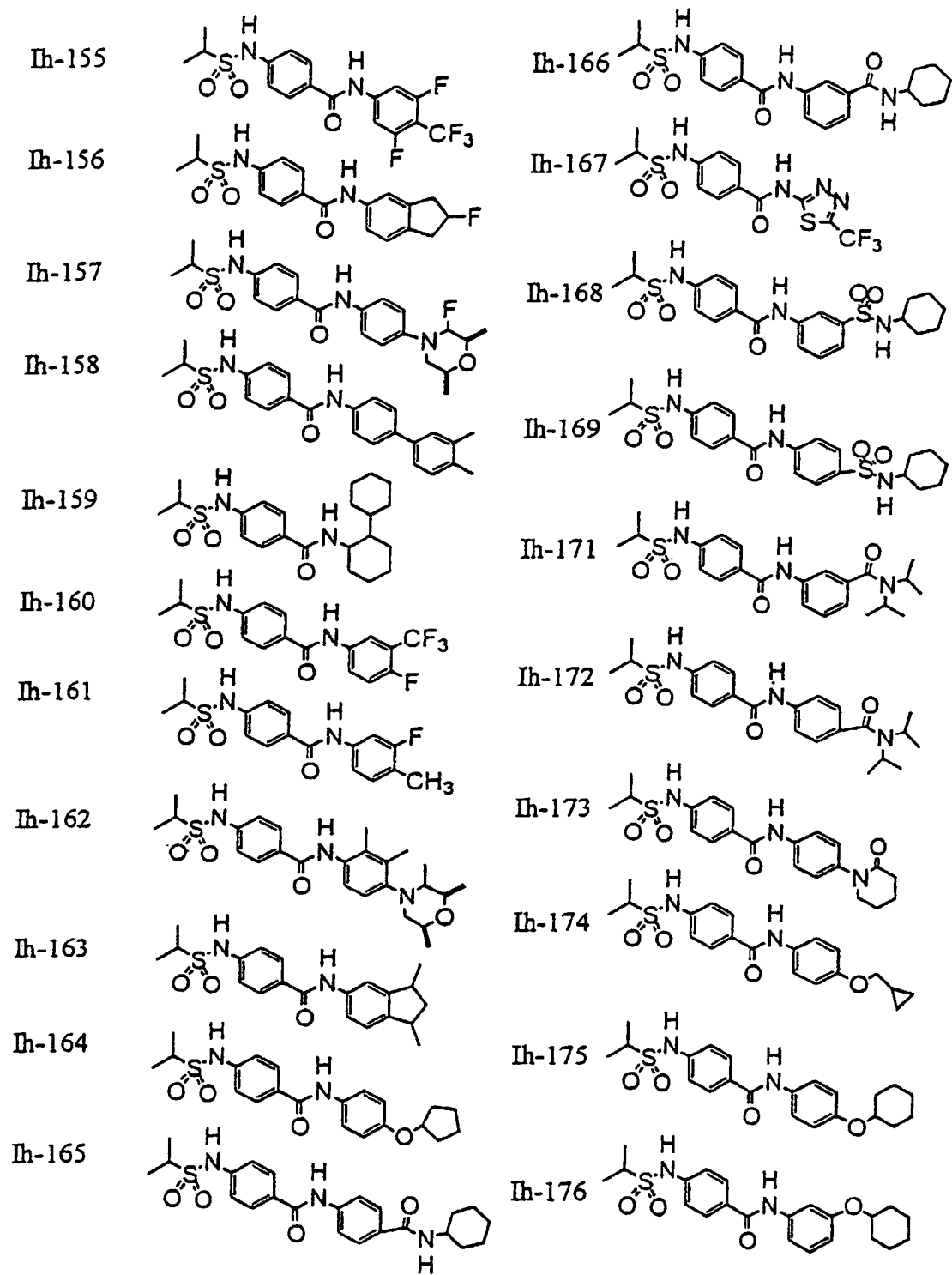


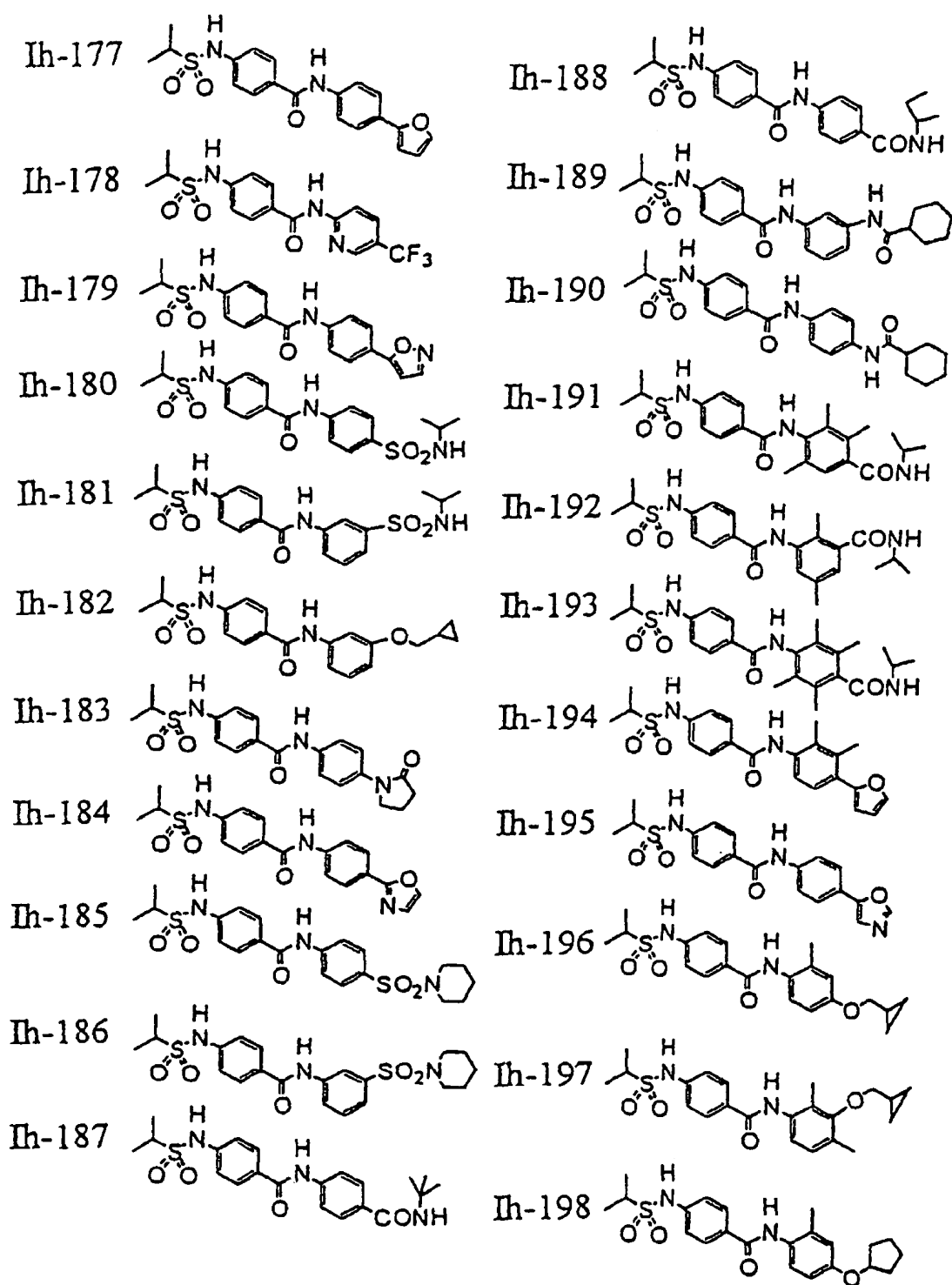


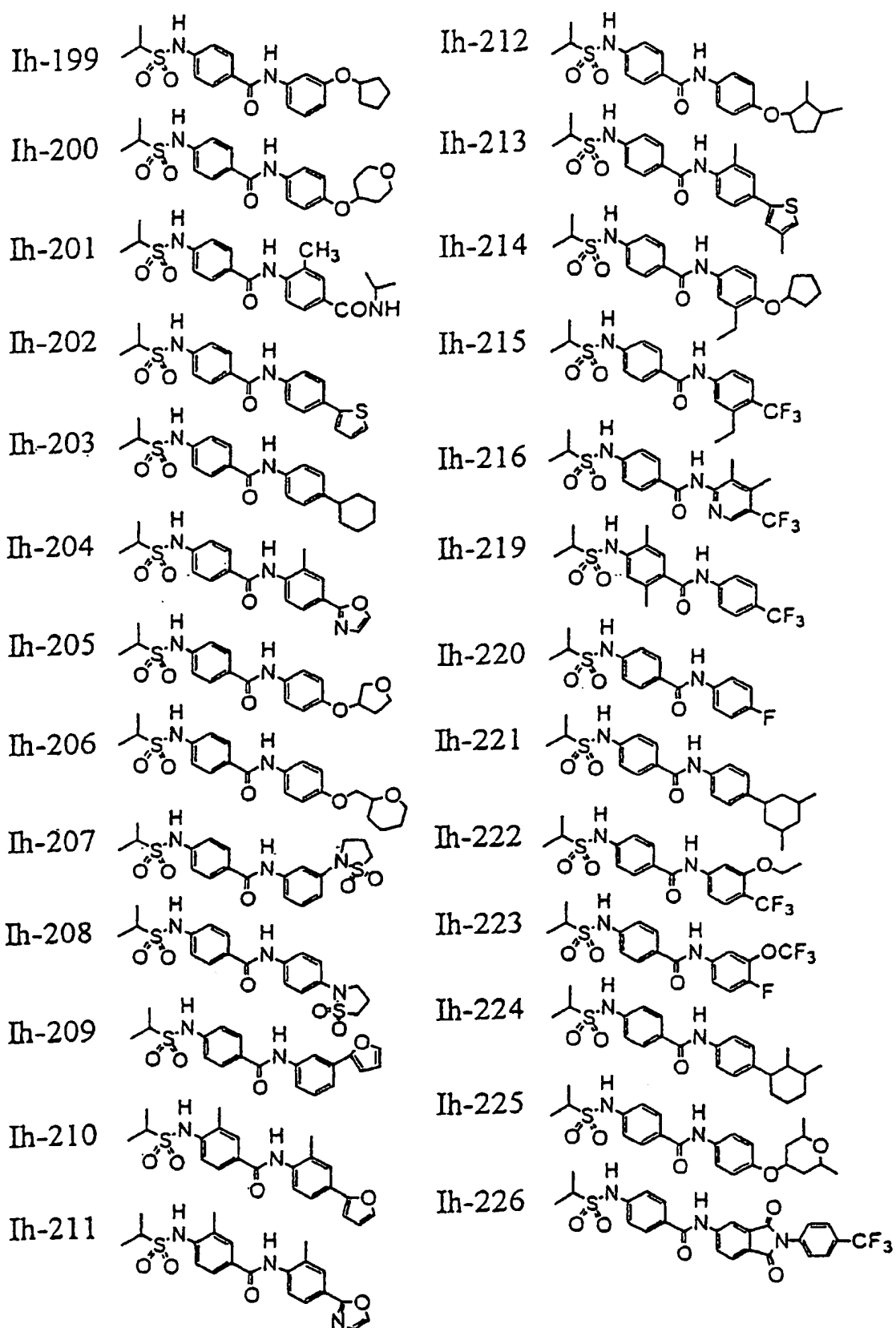












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I-2

RMN- ^1H (CDCl_3) δ ppm = 0,94 (t, 3H, J = 7,5 Hz), 1,34-1,44 (m, 2H), 1,40 (d, 6H, J = 6,6 Hz), 1,59-1,68 (m, 2H), 2,69 (t, 2H, J = 7,8 Hz), 3,24-3,35 (m, 1H), 6,49 (s, 1H), 7,23-7,32 (m, 4H), 7,6 (d, 2H, J = 8,7 Hz), 7,79 (d, 2H, J = 8,1 Hz), 7,85 (s, 1H).

I-3

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,30-1,39 (m, 2H), 1,37 (d, 6H, J = 6,9 Hz), 1,57 (quint, 2H, J = 7,5 Hz), 1,96 (quint, 2H, J = 6,6 Hz), 2,49 (t, 2H, J = 6,6 Hz), 2,57 (t, 2H, J = 7,8 Hz), 3,16-3,26 (m, 3H), 4,62 (ancha s, 1H), 7,12 (d, 2H, J = 8,1 Hz), 7,43 (d, 2H, J = 8,4 Hz), 7,64 (s, 1H).

I-4

RMN- ^1H (CD_3OD) δ ppm = 0,92 (t, 3H, J = 6,9 Hz), 1,28-1,41 (m, 2H), 1,46 (d, 6H, J = 6,3 Hz), 1,53-1,63 (m, 2H), 2,58 (t, 2H, J = 7,8 Hz), 3,33-3,43 (m, 1H), 6,27-6,29 (m, 1H), 7,14-7,16 (m, 3H), 7,50 (d, 2H, J = 8,4 Hz), 7,90 (s, 1H).

I-5

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,28-1,41 (m, 2H), 1,46 (d, 6H, J = 6,9 Hz), 1,53-1,63 (m, 2H), 2,59 (t, 2H, J = 7,8 Hz), 3,35-3,44 (m, 1H), 7,15 (d, 2H, J = 8,7 Hz), 7,38 (s, 1H), 7,45 (d, 2H, J = 8,7 Hz), 7,57 (s, 1H).

I-6

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,29-1,39 (m, 2H), 1,37 (d, 6H, J = 6,9 Hz), 1,55 (quint, 2H, J = 7,5 Hz), 2,55 (t, 2H, J = 5,1 Hz), 3,18-3,27 (m, 1H), 3,92 (d, 2H, J = 6,0 Hz), 5,51 (t, 1H, J = 5,7 Hz), 7,10 (d, 2H, J = 8,4 Hz), 7,39 (d, 2H, J = 8,4 Hz), 8,23 (s, 1H).

I-7

RMN- ^1H (CDCl_3) δ ppm = RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,28-1,38 (m, 2H), 1,37 (d, 6H, J = 6,9 Hz), 1,51-1,67 (m, 4H), 1,78-1,88 (m, 2H), 2,39 (t, 2H, J = 7,2 Hz), 2,57 (t, 2H, J = 7,5 Hz), 3,12-3,22 (m, 3H), 4,30-4,37 (m, 1H), 7,12 (d, 2H, J = 8,4 Hz), 7,36-7,42 (m, 3H).

I-8

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,21-1,47 (m, 4H), 1,35 (d, 6H, J = 6,6 Hz), 1,51-1,63 (m, 4H), 1,67-1,77 (m, 2H), 2,34 (t, 2H, J = 7,5 Hz), 2,55 (t, 2H, J = 7,8 Hz), 3,08-3,17 (m, 3H), 4,71 (t, 1H, J = 6,0 Hz), 7,09 (d, 2H, J = 8,1 Hz), 7,43 (d, 2H, J = 8,4 Hz), 7,74 (s, 1H).

I-9

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,29-1,39 (m, 2H), 1,35 (d, 6H, J = 6,9 Hz), 1,50-1,60 (m, 2H), 2,54 (t, 2H, J = 7,8 Hz), 2,64 (t, 2H, J = 5,7 Hz), 3,14-3,23 (m, 1H), 3,41-3,47 (m, 2H), 5,29 (t, 1H, J = 6,3 Hz), 7,10 (d, 2H, J = 8,4 Hz), 7,39 (d, 2H, J = 8,4 Hz), 7,91 (s, 1H).

I-10

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,22 (s, 9H), 1,30-1,37 (m, 2H), 1,51-1,68 (m, 4H), 1,76-1,86 (m, 2H), 2,31-2,40 (m, 2H), 2,56 (t, 2H, J = 7,5 Hz), 3,15-3,26 (m, 3H), 7,11 (t, 2H, J = 8,7 Hz), 7,42 (d, 2H, J = 8,1 Hz), 7,54 (s, 1H).

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I-11

p.f. = 128-129°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,29-1,39 (m, 2H), 1,39 (s, 9H), 1,51-1,68 (m, 4H), 1,76-1,84 (m, 2H), 2,37 (t, 2H, J = 7,5 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,19-3,26 (m, 2H), 4,20 (t, 1H, J = 5,7 Hz), 7,11 (d, 2H, J = 8,1 Hz), 7,42 (d, 2H, J = 8,7 Hz), 7,46 (s, 1H).

10 I-12

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,28-1,37 (m, 2H), 1,47-1,68 (m, 6H), 2,23 (t, 2H, J = 7,2 Hz), 2,56 (t, 2H, J = 7,5 Hz), 2,90-2,97 (m, 2H), 5,10 (ancha s, 1H), 7,11 (d, 2H, J = 8,4 Hz), 7,36 (d, 2H, J = 8,1 Hz), 7,50-7,68 (m, 3H), 7,93 (d, 1H, J = 8,1 Hz), 8,06 (d, 1H, J = 8,4 Hz), 8,24 (d, 1H, J = 7,5 Hz), 8,66 (d, 1H, J = 8,7 Hz).

15

I-13

20 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,28-1,40 (m, 2H), 1,45-1,73 (m, 6H), 2,23 (t, 2H, J = 7,5 Hz), 2,56 (t, 2H, J = 7,8 Hz), 2,88 (s, 6H), 2,88-2,95 (m, 2H), 5,04 (ancha s, 1H), 7,10 (d, 2H, J = 8,1 Hz), 7,17 (d, 1H, J = 7,2 Hz), 7,37 (d, 2H, J = 8,4 Hz), 7,48-7,54 (m, 2H), 8,23 (d, 1H, J = 7,2 Hz), 8,30 (d, 1H, J = 8,7 Hz), 8,53 (d, 1H, J = 8,4 Hz).

25 I-14

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,30-1,43 (m, 6H), 1,36 (d, 6H, J = 6,6 Hz), 1,51-1,62 (m, 4H), 1,67-1,78 (m, 2H), 2,34 (t, 2H, J = 7,5 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,09-3,20 (m, 3H), 4,34 (ancha s, 1H), 7,10 (d, 2H, J = 8,4 Hz), 7,41-7,44 (m, 3H).

30

I-15

35 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,23 (s, 9H), 1,27-1,80 (m, 12H), 2,30-2,38 (m, 2H), 2,56 (t, 2H, J = 7,5 Hz), 3,15 (ancha s, 2H), 7,11 (d, 2H, J = 7,8 Hz), 7,43 (d, 2H, J = 7,8 Hz), 7,59 (s, 1H).

I-16

40 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,29-1,44 (m, 6H), 1,39 (s, 9H), 1,51-1,61 (m, 4H), 1,68-1,78 (m, 2H), 2,35 (t, 2H, J = 7,5 Hz), 2,56 (t, 2H, J = 8,1 Hz), 3,15-3,21 (m, 2H), 4,14-4,23 (m, 1H), 7,11 (d, 2H, J = 7,8 Hz), 7,36-7,44 (m, 3H).

45 I-19

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,5 Hz), 1,21 (s, 9H), 1,30-1,40 (m, 2H), 1,55-1,72 (m, 6H), 2,64 (t, 2H, J = 7,8 Hz), 3,08-3,33 (m, 3H), 3,42-3,50 (m, 2H), 6,39 (s, 1H), 7,22 (d, 2H, J = 8,4 Hz), 7,69 (d, 2H, J = 8,1 Hz).

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I-20

55 RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,31-1,39 (m, 2H), 1,39 (s, 9H), 1,55-1,72 (m, 6H), 2,64 (t, 2H, J = 7,8 Hz), 3,24 (quart, 2H, J = 6,6 Hz), 3,48 (quart, 2H, J = 6,6 Hz), 4,21 (t, 1H, J = 6,3 Hz), 6,29 (s, 1H), 7,22 (d, 2H, J = 7,8 Hz), 7,67 (d, 2H, J = 8,1 Hz).

I-21

60 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,23 (s, 9H), 1,30-1,42 (m, 2H), 1,50-2,02 (m, 10H), 2,30-2,42 (m, 1H), 2,57 (t, 2H, J = 8,1 Hz), 3,10 (ancha s, 1H), 3,57 (ancha s, 1H), 7,12 (d, 2H, J = 8,4 Hz), 7,41 (d, 2H, J = 7,8 Hz).

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I-22

p.f. = 78-79°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,30-1,40 (m, 2H), 1,40 (s, 9H), 1,50-1,65 (m, 4H), 1,70-1,98 (m, 8H), 2,30-2,40 (m, 1H), 2,57 (t, 2H, J = 7,5 Hz), 3,58-3,70 (m, 1H), 4,16 (d, 1H, J = 9,3 Hz), 7,11-7,15 (m, 3H), 7,40 (d, 2H, J = 8,1 Hz).

10 I-23

RMN- ^1H (CDCl_3) δ ppm; 0,91 (t, 3H, J = 7,2 Hz), 1,21 (s, 9H), 1,21-1,41 (m, 4H), 1,51-1,64 (m, 4H), 1,86-2,01 (m, 4H), 2,12-2,25 (m, 1H), 2,56 (t, 2H, J = 7,5 Hz), 2,87-2,96 (m, 1H), 3,00-3,12 (m, 1H), 3,23-3,34 (m, 1H), 3,67-3,75 (m, 1H), 7,11 (d, 2H, J = 8,1 Hz), 7,40 (d, 2H, J = 8,4 Hz).

15

I-24

20 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,25-1,37 (m, 2H), 1,40 (s, 9H), 1,48-1,65 (m, 6H), 1,90 (d, 2H, J = 11,7 Hz), 2,02 (d, 2H, J = 11,7 Hz), 2,12-2,24 (m, 1H), 2,56 (t, 2H, J = 7,5 Hz), 3,04 (t, 2H, J = 6,3 Hz), 4,31 (t, 1H, J = 5,7 Hz), 7,11 (d, 2H, J = 8,1 Hz), 7,42 (d, 2H, J = 8,4 Hz).

I-25

25

p.f. = 232-233°C

30 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,23-1,40 (m, 4H), 1,40 (s, 9H), 1,51-1,76 (m, 4H), 2,01-2,26 (m, 5H), 2,56 (t, 2H, J = 7,5 Hz), 3,22-3,38 (m, 1H), 3,79 (d, 1H, J = 9,3 Hz), 7,11 (d, 2H, J = 8,7 Hz), 7,17 (s, 1H), 7,40 (d, 2H, J = 8,4 Hz).

I-26

35 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,22 (s, 9H), 1,28-1,40 (m, 2H), 1,52-1,62 (m, 2H), 1,85-1,96 (m, 1H), 2,00-2,14 (m, 1H), 2,38-2,53 (m, 2H), 2,56 (t, 2H, J = 7,5 Hz), 3,22-3,37 (m, 3H), 7,11 (d, 2H, J = 8,4 Hz), 7,45 (d, 2H, J = 8,4 Hz), 8,19 (s, 1H).

40 I-27

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,30-1,40 (m, 2H), 1,40 (s, 9H), 1,52-1,61 (m, 2H), 1,95 (quint, 2H, J = 6,3 Hz), 2,50 (t, 2H, J = 6,9 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,31 (quart, 2H, J = 6,0 Hz), 4,30-4,36 (m, 1H), 7,12 (d, 2H, J = 8,4 Hz), 7,43 (d, 2H, J = 8,4 Hz), 7,65 (s, 1H).

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I-28

50 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,21 (s, 9H), 1,30-1,62 (m, 8H), 2,08 (d, 4H, J = 11,1 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,04 (d, 1H, J = 4,8 Hz), 3,20-3,30 (m, 1H), 4,65-4,76 (m, 1H), 6,57 (s, 1H), 7,10 (d, 2H, J = 8,7 Hz), 7,26 (d, 2H, J = 8,1 Hz).

I-29

55

RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,2 Hz), 1,23-1,62 (m, 8H), 1,40 (s, 9H), 2,12 (d, 4H, J = 14,4 Hz), 2,56 (t, 2H, J = 7,8 Hz), 3,28-3,40 (m, 1H), 3,90 (s, 1H), 4,60-4,73 (m, 1H), 6,57 (s, 1H), 7,10 (d, 2H, J = 8,4 Hz), 7,25 (d, 2H, J = 8,4 Hz).

60

I-30

65 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,26-1,39 (m, 2H), 1,51-1,64 (m, 4H), 1,72-1,81 (m, 2H), 2,34 (t, 2H, J = 6,9 Hz), 2,56 (t, 2H, J = 7,8 Hz), 2,95-3,01 (m, 2H), 4,84 (t, 1H, J = 5,7 Hz), 6,99-7,12 (m, 6H), 7,19-7,24 (m, 1H), 7,30 (s, 1H), 7,38-7,43 (m, 4H), 7,79 (d, 2H, J = 8,7 Hz).

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I-31

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,5 Hz), 1,21 (s, 9H), 1,28-1,62 (m, 8H), 2,07-2,14 (m, 4H), 2,64 (t, 2H, J = 7,8 Hz), 3,11 (d, 1H, J = 5,1 Hz), 3,20 (ancha s, 1H), 3,90-4,04 (m, 1H), 6,06-6,14 (m, 1H), 7,21 (t, 2H, J = 8,1 Hz), 7,67 (t, 2H, J = 8,4 Hz).

I-32

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,2 Hz), 1,27-1,65 (m, 8H), 1,40 (s, 9H), 2,10-2,23 (m, 4H), 2,65 (t, 2H, J = 7,5 Hz), 3,23-3,35 (m, 1H), 3,49 (s, 1H), 3,88-4,02 (m, 1H), 5,84-5,92 (m, 1H), 7,13 (t, 2H, J = 8,4 Hz), 7,65 (d, 2H, J = 8,1 Hz).

I-33

RMN- ^1H (CDCl_3) δ ppm = 0,94 (t, 3H, J = 7,2 Hz), 1,30-1,42 (m, 2H), 1,32 (s, 9H), 1,57-1,66 (m, 2H), 2,67 (t, 2H, J = 7,8 Hz), 5,61 (s, 1H), 6,93 (d, 2H, J = 8,7 Hz), 7,25 (d, 2H, J = 8,4 Hz), 7,49 (d, 2H, J = 9,0 Hz), 7,80 (d, 2H, J = 8,1 Hz), 8,22 (s, 1H).

I-34

RMN- ^1H (CD_3OD) δ ppm = 0,95 (t, 3H, J = 7,5 Hz), 1,35 (s, 9H), 1,35-1,44 (m, 2H), 1,57-1,69 (m, 2H), 2,69 (t, 2H, J = 7,5 Hz), 7,28-7,33 (m, 4H), 7,56 (d, 2H, J = 9,0 Hz), 7,83 (d, 2H, J = 8,4 Hz).

I-36

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,5 Hz), 1,31-1,70 (m, 11H), 1,39 (s, 9H), 1,75-1,85 (m, 1H), 2,65 (t, 2H, J = 8,1 Hz), 3,13 (t, 2H, J = 6,6 Hz), 3,40 (t, 2H, J = 7,2 Hz), 4,10 (t, 1H, J = 5,7 Hz), 6,21 (t, 1H, J = 5,7 Hz), 7,23 (d, 2H, J = 8,1 Hz), 7,67 (d, 2H, J = 8,4 Hz).

I-37

RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,5 Hz), 0,95-1,10 (m, 2H), 1,31-1,40 (m, 2H), 1,39 (s, 9H), 1,55-1,63 (m, 4H), 1,80-1,92 (m, 4H), 2,65 (t, 2H, J = 7,8 Hz), 3,03 (t, 2H, J = 6,6 Hz), 3,31 (t, 2H, J = 6,6 Hz), 4,06 (t, 1H, J = 6,0 Hz), 6,22 (t, 1H, J = 6,0 Hz), 7,23 (d, 2H, J = 8,4 Hz), 7,67 (d, 2H, J = 8,1 Hz).

I-39

RMN- ^1H (CDCl_3) δ ppm = 1,13 (t, 3H, J = 7,2 Hz), 1,39 (s, 9H), 1,69-1,97 (m, 8H), 2,27-2,38 (m, 1H), 3,29-3,35 (m, 4H), 3,60-3,70 (m, 1H), 4,52 (d, 1H, J = 9,3 Hz), 6,64 (d, 2H, J = 8,4 Hz), 7,22 (s, 1H), 7,31 (d, 2H, J = 9,0 Hz).

I-40

RMN- ^1H (CDCl_3) δ ppm = 1,38 (s, 9H), 1,68-1,96 (m, 8H), 2,30-2,40 (m, 1H), 3,11 (t, 4H, J = 4,8 Hz), 3,60-3,72 (m, 1H), 3,86 (t, 4H, J = 4,8 Hz), 4,51 (ancha s, 1H), 6,89 (d, 2H, J = 9,0 Hz), 7,42 (d, 2H, J = 8,7 Hz).

I-41

p.f. = >278°C (descomp.)

RMN- ^1H (CDCl_3) δ ppm = 1,18-1,40 (m, 2H), 1,40 (s, 9H), 1,62-1,75 (m, 2H), 2,01-2,27 (m, 5H), 3,10-3,13 (m, 4H), 3,22-3,38 (m, 1H), 3,72 (d, 1H, J = 9,3 Hz), 3,85-3,88 (m, 4H), 6,87 (d, 2H, J = 9,0 Hz), 7,10 (s, 1H), 7,40 (d, 2H, J = 9,0 Hz).

I-42

RMN- ^1H (CDCl_3) δ ppm = 1,40 (s, 9H), 1,61-1,97 (m, 8H), 2,16 (s, 3H), 2,33-2,43 (m, 1H), 3,60-3,70 (m, 1H), 4,66 (ancha s, 1H), 7,12 (d, 1H, J = 8,7 Hz), 7,46-7,50 (m, 1H), 7,62 (s, H), 7,75-7,78 (m, 1H), 7,86-7,91 (m, 2H).

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I-43

RMN- ^1H (CDCl_3) δ ppm = 1,40 (s, 9H), 1,62-2,00 (m, 8H), 1,87 (s, 3H), 2,36-2,47 (m, 1H), 3,24 (s, 3H), 3,64-3,74 (m, 1H), 4,87 (ancha s, 1H), 7,13 (d, 2H, $J = 9,0$ Hz), 7,64 (d, 2H, $J = 8,4$ Hz), 7,81 (s, H).

I-44

p.f. = 235-236°C

RMN- ^1H (CDCl_3) δ ppm = 1,13 (t, 6H, $J = 6,9$ Hz), 1,18-1,33 (m, 2H), 1,40 (s, 9H), 1,60-1,77 (m, 2H), 2,00-2,26 (m, 5H), 3,28-3,35 (m, 4H), 3,73 (d, 1H, $J = 9,3$ Hz), 6,60-6,70 (m, 2H), 7,03 (ancha s, 1H), 7,31 (d, 2H, $J = 7,8$ Hz).

I-45

p.f. = >268°C (descomp.)

RMN- ^1H (CDCl_3) δ ppm = 1,20-1,34 (m, 2H), 1,40 (s, 9H), 1,56-1,76 (m, 8H), 2,00-2,26 (m, 5H), 3,06-3,14 (m, 4H), 3,24-3,36 (m, 1H), 3,72 (d, 1H, $J = 9,3$ Hz), 6,90 (d, 2H, $J = 8,7$ Hz), 7,09 (s, 1H), 7,36 (d, 2H, $J = 8,7$ Hz).

I-46

p.f. = >272°C (descomp.)

RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,28 (s, 9H), 1,31-1,59 (m, 7H), 1,87-2,00 (m, 4H), 2,23-2,34 (m, 1H), 3,00-3,16 (m, 1H), 4,35-4,45 (m, 2H), 6,81 (d, 1H, $J = 9,0$ Hz), 7,16 (t, 1H, $J = 7,2$ Hz), 7,43 (t, 1H, $J = 8,4$ Hz), 7,52-7,58 (m, 3H), 8,04 (d, 1H, $J = 7,8$ Hz), 8,43 (s, 1H).

I-47

RMN- ^1H (CDCl_3) δ ppm = 1,20-1,36 (m, 2H), 1,40 (s, 9H), 1,62-1,77 (m, 2H), 1,98-2,32 (m, 5H), 3,31-3,40 (m, 1H), 3,62 (d, 1H, $J = 9,0$ Hz), 7,08 (s, 1H), 7,29 (d, 2H, $J = 9,0$ Hz), 7,61 (d, 2H, $J = 9,0$ Hz).

I-48

RMN- ^1H (CDCl_3) δ ppm = 1,22-1,36 (m, 2H), 1,40 (s, 9H), 1,62-1,77 (m, 2H), 2,00-2,31 (m, 5H), 3,24-3,40 (m, 1H), 3,62 (d, 1H, $J = 10,2$ Hz), 7,01 (t, 2H, $J = 8,7$ Hz), 7,09 (s, 1H), 7,42-7,50 (m, 2H).

I-49

p.f. = 270°C (descomp.)

RMN- ^1H (CDCl_3) δ ppm = 1,20-1,36 (m, 2H), 1,40 (s, 9H), 1,61-1,77 (m, 2H), 1,95-2,30 (m, 9H), 3,17-3,38 (m, 5H), 3,67 (d, 1H, $J = 9,3$ Hz), 6,50 (d, 2H, $J = 9,0$ Hz), 6,97 (s, 1H), 7,30 (d, 2H, $J = 9,0$ Hz).

I-50

p.f. = 252-253°C

RMN- ^1H (CDCl_3) δ ppm = 1,21-1,37 (m, 2H), 1,40 (s, 9H), 1,62-1,78 (m, 2H), 1,98-2,32 (m, 5H), 3,26-3,40 (m, 1H), 3,68 (d, 1H, $J = 9,6$ Hz), 6,94-7,02 (m, 4H), 7,08 (t, 1H, $J = 7,5$ Hz), 7,13 (s, 1H), 7,31 (t, 2H, $J = 7,5$ Hz), 7,46 (d, 2H, $J = 9,0$ Hz).

I-51

p.f. = 278-279°C

RMN- ^1H (CDCl_3) δ ppm = 1,02 (d, 6H, $J = 6,9$ Hz), 1,35 (s, 9H), 1,39-1,71 (m, 6H), 1,90-2,09 (m, 2H), 3,16-3,30 (m, 1H), 3,46 (d, 1H, $J = 9,0$ Hz), 4,92-5,01 (m, 1H), 6,91-6,95 (m, 2H), 7,00-7,07 (m, 3H), 7,13-7,16 (m, 2H), 7,30-7,36 (m, 2H).

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I-52

p.f. = 276-277°C

- 5 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,36 (m, 2H), 1,40 (s, 9H), 1,60-1,78 (m, 2H), 1,98-2,30 (m, 5H), 2,36 (s, 3H), 2,58 (t, 4H, $J = 4,5$ Hz), 3,17 (t, 4H, $J = 4,5$ Hz), 3,21-3,40 (m, 1H), 3,64 (d, 1H, $J = 9,0$ Hz), 6,88 (d, 2H, $J = 9,0$ Hz), 7,01 (s, 1H), 7,37 (d, 2H, $J = 9,0$ Hz).

10 I-53

p.f. = >300°C

- 15 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,20-1,54 (m, 4H), 1,27 (s, 9H), 1,73-1,88 (m, 2H), 1,89-2,01 (m, 2H), 2,13-2,25 (m, 1H), 2,98-3,12 (m, 1H), 3,15-3,31 (m, 8H), 6,76-6,84 (m, 2H), 6,93 (d, 2H, $J = 9,0$ Hz), 6,99 (d, 2H, $J = 8,1$ Hz), 7,24 (d, 2H, $J = 8,1$ Hz), 7,46 (d, 2H, $J = 9,0$ Hz), 9,60 (s, 1H).

I-54

20

p.f. = >215°C (descomp.)

- 25 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,27-2,00 (m, 18H), 2,14-2,26 (m, 1H), 2,53-2,84 (m, 4H), 2,86-3,30 (m, 2H), 3,46-3,54 (m, 1H), 3,62-3,74 (m, 2H), 6,78 (d, 1H, $J = 8,7$ Hz), 6,87 (d, 2H, $J = 7,8$ Hz), 7,42 (d, 2H, $J = 8,7$ Hz), 9,58 (s, 1H).

I-55

30

p.f. = >290°C (descomp.)

- 35 RMN- ^1H (CDCl_3) δ ppm = 1,23-1,40 (m, 2H), 1,40 (s, 9H), 1,60-1,76 (m, 2H), 2,02-2,27 (m, 5H), 3,20 (t, 4H, $J = 5,4$ Hz), 3,21-3,32 (m, 1H), 3,67 (d, 1H, $J = 9,3$ Hz), 3,98 (t, 4H, $J = 4,8$ Hz), 6,52 (t, 1H, $J = 4,8$ Hz), 6,93 (d, 2H, $J = 8,4$ Hz), 7,06 (s, 1H), 7,41 (d, 2H, $J = 8,7$ Hz), 8,33 (d, 2H, $J = 4,8$ Hz).

I-56

40

p.f. = >232°C (descomp.)

- 45 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,27-1,48 (m, 4H), 1,80-1,99 (m, 4H), 2,14-2,25 (m, 1H), 3,04-3,24 (m, 8H), 3,68 (s, 3H), 3,76 (s, 3H), 6,44-6,47 (m, 1H), 6,66 (s, 1H), 6,76-6,84 (m, 2H), 6,92 (d, 2H, $J = 8,4$ Hz), 7,46 (d, 2H, $J = 8,4$ Hz), 9,61 (s, 1H).

I-57

50

p.f. = 284-285°C (descomp.)

- 55 RMN- ^1H (CDCl_3) δ ppm = 1,27 (t, 3H, $J = 7,2$ Hz), 1,40 (s, 9H), 1,61-2,24 (m, 9H), 2,35-2,49 (m, 1H), 2,76 (t, 2H, $J = 10,2$ Hz), 3,04-3,15 (m, 2H), 3,20-3,36 (m, 1H), 3,55-3,59 (m, 2H), 3,87 (d, 1H, $J = 9,6$ Hz), 4,12-4,19 (m, 2H), 6,90 (d, 2H, $J = 8,7$ Hz), 2,79 (s, 1H), 7,40 (d, 2H, $J = 8,7$ Hz).

55 I-58

p.f. = >299°C (descomp.)

- 60 RMN- ^1H (CDCl_3) δ ppm = 1,26-1,33 (m, 2H), 1,40 (s, 9H), 1,56-2,42 (m, 19H), 2,73-2,81 (m, 4H), 3,16-3,26 (m, 4H), 3,64 (d, 1H, $J = 9,6$ Hz), 6,87 (d, 2H, $J = 8,7$ Hz), 7,04 (s, 1H), 7,37 (d, 2H, $J = 9,0$ Hz).

I-59

65

p.f. = >270°C (descomp.)

- RMN- ^1H (CDCl_3) δ ppm = 1,26-1,47 (m, 2H), 1,47 (s, 9H), 1,60-1,80 (m, 4H), 2,01-2,32 (m, 5H), 3,28-3,40 (m, 3H), 3,62-3,74 (m, 3H), 5,74-5,96 (m, 2H), 6,92 (d, 2H, $J = 8,7$ Hz), 7,13 (s, 1H), 7,39 (d, 2H, $J = 9,0$ Hz).

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I-60

p.f. = 247-250°C (descomp.)

5 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,37 (m, 2H), 1,40 (s, 9H), 1,60-1,78 (m, 2H), 1,98-2,33 (m, 5H), 2,93-3,03 (m, 2H), 3,22-3,40 (m, 1H), 3,52 (t, 2H, $J = 6,0$ Hz), 3,62 (d, 1H, $J = 8,4$ Hz), 4,36 (s, 2H), 6,93 (d, 2H, $J = 8,7$ Hz), 7,00 (s, 1H), 7,11-7,22 (m, 4H), 7,39 (d, 2H, $J = 8,7$ Hz).

10 I-61

p.f. = 280-281°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,21-1,38 (m, 2H), 1,41 (s, 9H), 1,64-1,80 (m, 2H), 2,02-2,33 (m, 5H), 3,24-3,40 (m, 1H), 3,61 (d, 1H, $J = 9,0$ Hz), 6,33 (t, 2H, $J = 2,1$ Hz), 7,04 (t, 2H, $J = 2,1$ Hz), 7,14 (s, 1H), 7,34 (d, 2H, $J = 9,0$ Hz), 7,56 (d, 2H, $J = 9,0$ Hz).

I-62

20

p.f. = 260-262°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,39 (m, 2H), 1,41 (s, 9H), 1,64-1,82 (m, 2H), 2,02-2,35 (m, 5H), 3,24-3,40 (m, 1H), 3,62 (d, 1H, $J = 9,6$ Hz), 7,31 (d, 2H, $J = 9,0$ Hz), 7,51 (s, 1H), 7,69 (d, 2H, $J = 9,0$ Hz).

I-63

30

p.f. = 248°C

30 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,38 (m, 2H), 1,40 (s, 9H), 1,61-1,78 (m, 2H), 1,98-2,32 (m, 5H), 3,22-3,45 (m, 1H), 3,64 (d, 1H, $J = 9,3$ Hz), 7,11 (s, 1H), 7,37-7,46 (m, 4H).

35 I-64

p.f. = 272-275°C (descomp.)

40 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,20-1,53 (m, 4H), 1,27 (s, 9H), 1,75-1,88 (m, 2H), 1,88-2,00 (m, 2H), 2,11-2,24 (m, 1H), 2,96-3,12 (m, 1H), 5,96 (s, 2H), 6,77 (d, 1H, $J = 8,7$ Hz), 6,82 (d, 1H, $J = 8,4$ Hz), 6,95 (dd, 1H, $J = 1,8, 8,4$ Hz), 7,29 (d, 1H, $J = 1,8$ Hz), 9,70 (s, 1H).

I-65

45

p.f. = 293-296°C (descomp.)

50 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,20-1,70 (m, 10H), 1,27 (s, 9H), 1,79-2,038 (m, 4H), 2,18-2,33 (m, 1H), 2,98-3,30 (m, 5H), 6,79 (d, 1H, $J = 9,0$ Hz), 6,97 (d, 2H, $J = 8,1$ Hz), 7,43-7,57 (m, 4H), 7,62 (d, 2H, $J = 8,1$ Hz), 9,82 (s, 1H).

I-66

55

p.f. = >300°C

55 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,27-1,53 (m, 4H), 1,86-1,99 (m, 4H), 2,22-2,34 (m, 1H), 2,39 (s, 3H), 3,00-3,14 (m, 1H), 6,25 (s, 1H), 6,79 (d, 1H, $J = 9,0$ Hz), 7,47-7,50 (m, 1H), 7,69-7,76 (m, 1H), 10,27 (s, 1H).

60 I-67

p.f. = 248-249°C

65 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,20-1,54 (m, 4H), 1,27 (s, 9H), 1,77-1,90 (m, 2H), 1,90-2,02 (m, 2H), 2,02 (s, 3H), 2,17-2,32 (m, 1H), 2,96-3,13 (m, 1H), 6,78 (d, 1H, $J = 8,7$ Hz), 7,12-7,30 (m, 3H), 7,89 (s, 1H), 9,79 (s, 1H), 9,88 (s, 1H).

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I-68

p.f. = >300°C

5 RMN-H¹ (DMSO-d₆) δ ppm = 1,20-1,54 (m, 4H), 1,27 (s, 9H), 1,77-1,89 (m, 2H), 1,89-2,03 (m, 2H), 2,00 (s, 3H), 2,14-2,28 (m, 1H), 2,95-3,13 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,40-7,54 (m, 4H), 9,72 (s, 1H), 9,83 (s, 1H).

I-69

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p.f. = 199-201°C

15 RMN-H¹ (DMSO-d₆) δ ppm = 1,21-1,53 (m, 4H), 1,27 (s, 9H), 1,76-1,89 (m, 2H), 1,89-2,02 (m, 2H), 2,13-2,30 (m, 1H), 2,85 (s, 6H), 2,94-3,14 (m, 1H), 6,40 (dd, 1H, J = 2,4, 8,4 Hz), 6,78 (d, 1H, J = 8,7 Hz), 6,90 (d, 1H, J = 8,4 Hz), 7,05 (t, 2H, J = 8,4 Hz), 9,60 (s, 1H).

I-70

20

p.f. = 227-230°C

25 RMN-H¹ (DMSO-d₆) δ ppm = 1,22-1,52 (m, 4H), 1,27 (s, 9H), 1,72-1,87 (m, 2H), 1,87-2,01 (m, 2H), 2,12-2,29 (m, 1H), 2,96-3,12 (m, 1H), 5,00 (s, 2H), 6,22 (d, 1H, J = 7,5 Hz), 6,66 (d, 1H, J = 7,5 Hz), 6,78 (d, 1H, J = 9,0 Hz), 6,86 (d, 1H, J = 7,5 Hz), 6,89-6,95 (m, 1H), 9,46 (s, 1H).

I-71

p.f. = 270-272°C

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35 RMN-H¹ (DMSO-d₆) δ ppm = 1,22-1,52 (m, 4H), 1,26 (s, 9H), 1,73-1,86 (m, 2H), 1,88-2,00 (m, 2H), 2,08-2,22 (m, 1H), 2,95-3,11 (m, 1H), 4,80 (s, 2H), 6,47 (d, 2H, J = 8,4 Hz), 6,77 (d, 1H, J = 8,4 Hz), 7,20 (d, 2H, J = 8,4 Hz), 9,35 (s, 1H).

I-72

p.f. = 262-263°C

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45 RMN-H¹ (CDCl₃) δ ppm = 1,25 (d, 6H, J = 6,3 Hz), 1,17-1,42 (m, 2H), 1,40 (s, 9H), 1,60-1,78 (m, 2H), 1,98-2,43 (m, 7H), 3,20-3,43 (m, 3H), 3,67 (d, 1H, J = 9,6 Hz), 3,74-3,86 (m, 2H), 6,86 (d, 2H, J = 9,0 Hz), 7,04 (s, 1H), 7,38 (d, 2H, J = 9,0 Hz).

45 I-73

p.f. = 218-219°C

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55 RMN-H¹ (CD₃OD) δ ppm = 1,36 (s, 9H), 1,36-1,69 (m, 4H), 1,45 (s, 9H), 1,88-2,02 (m, 3H), 2,06-2,30 (m, 4H), 3,05-3,44 (m, 3H), 3,46-3,56 (m, 1H), 4,16-4,26 (m, 1H), 6,51 (d, 2H, J = 9,0 Hz), 7,30 (d, 2H, J = 8,7 Hz).

I-74

55

p.f. = 295-296°C (descomp.)

60 RMN-H¹ (CD₃OD) δ ppm = 1,36 (s, 9H), 1,36-1,67 (m, 4H), 1,92-2,13 (m, 4H), 2,26-2,40 (m, 2H), 2,62-2,75 (m, 1H), 3,16-3,25 (m, 1H), 3,58-3,98 (m, 4H), 4,16-4,25 (m, 1H), 7,20-7,30 (m, 2H), 7,62 (d, 2H, J = 9,0 Hz).

I-75

p.f. = 250-251°C

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70 RMN-H¹ (DMSO-d₆) δ ppm = 1,23-1,55 (m, 4H), 1,27 (s, 9H), 1,78-1,90 (m, 2H), 1,90-2,02 (m, 2H), 2,15-2,28 (m, 1H), 2,98-3,14 (m, 1H), 3,06 (t, 2H, J = 8,4 Hz), 3,87 (t, 2H, J = 8,4 Hz), 6,67 (dd, 1H, J = 1,5, 7,2 Hz), 6,80 (d, 1H, J = 8,4 Hz), 6,94-7,05 (m, 2H), 7,12-7,19 (m, 1H), 7,16 (d, 2H, J = 9,3 Hz), 7,57 (d, 2H, J = 9,3 Hz), 9,73 (s, 1H).

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I-76

p.f. = 265-266°C

5 RMN- ^1H (DMSO- d_6) δ ppm = 1,23-1,58 (m, 4H), 1,28 (s, 9H), 1,83-2,04 (m, 4H), 2,20-2,36 (m, 1H), 2,97-3,16 (m, 1H), 6,67 (d, 1H, $J = 3,0$ Hz), 6,82 (d, 1H, $J = 8,4$ Hz), 7,07-7,22 (m, 2H), 7,47-7,53 (m, 1H), 7,50 (d, 2H, $J = 9,0$ Hz), 7,58 (d, 1H, $J = 3,0$ Hz), 7,64 (d, 1H, $J = 7,5$ Hz), 7,79 (d, 2H, $J = 9,0$ Hz), 10,02 (s, 1H).

10 I-77

p.f. = 281°C

15 RMN- ^1H (DMSO- d_6) δ ppm = 1,21-1,56 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,18-2,31 (m, 1H), 2,97-3,14 (m, 1H), 6,51 (dd, 1H, $J = 2,1, 2,7$ Hz), 6,81 (d, 1H, $J = 9,0$ Hz), 7,67-7,78 (m, 5H), 8,41 (d, 1H, $J = 2,1$ Hz), 9,96 (s, 1H).

I-78

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p.f. = >300°C (descomp.)

25 RMN- ^1H (DMSO- d_6) δ ppm = 1,27 (s, 9H), 1,27-1,52 (m, 4H), 1,74-2,04 (m, 7H), 2,10-2,25 (m, 2H), 2,96-3,20 (m, 2H), 3,48-3,58 (m, 1H), 3,75-3,84 (m, 1H), 6,39 (d, 2H, $J = 8,4$ Hz), 6,79 (d, 1H, $J = 8,4$ Hz), 7,02 (s, 1H), 7,30 (s, 1H), 7,36 (d, 2H, $J = 8,1$ Hz), 9,48 (s, 1H).

I-79

30

p.f. = 248-250°C (descomp.)

RMN- ^1H (DMSO- d_6) δ ppm = 1,27 (s, 9H), 1,27-1,54 (m, 4H), 1,85-1,99 (m, 4H), 2,24-2,33 (m, 1H), -3,00-3,14 (m, 1H), 6,82 (d, 1H, $J = 8,7$ Hz), 7,77 (d, 2H, $J = 8,4$ Hz), 8,07 (d, 2H, $J = 8,4$ Hz).

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I-80

p.f. = >300°C

40 RMN- ^1H (DMSO- d_6) δ ppm = 1,22-1,58 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,18-2,32 (m, 1H), 2,98-3,14 (m, 1H), 6,80 (d, 1H, $J = 8,7$ Hz), 7,35-7,50 (m, 2H), 7,99 (s, 1H), 8,11 (s, 1H), 9,79 (s, 1H), 12,94 (s, 1H).

I-81

45

p.f. = 261-262°C

RMN- ^1H (DMSO- d_6) δ ppm = 1,21-1,57 (m, 4H), 1,27 (s, 9H), 1,78-2,02 (m, 4H), 2,17-2,30 (m, 1H), 2,96-3,16 (m, 1H), 6,34 (s, 1H), 6,80 (d, 1H, $J = 8,7$ Hz), 7,14-7,32 (m, 3H), 7,85 (s, 1H), 9,58 (s, 1H), 10,95 (s, 1H).

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I-82

55 RMN- ^1H (CDCl_3) δ ppm = 0,86 (s, 18H), 1,24-1,37 (m, 2H), 1,37 (s, 9H), 1,56-1,74 (m, 2H), 1,95-2,19 (m, 5H), 3,18-3,32 (m, 1H), 3,44 (t, 4H, $J = 6,3$ Hz), 3,70 (t, 4H, $J = 6,3$ Hz), 4,39 (d, 1H, $J = 9,0$ Hz), 6,59 (d, 2H, $J = 9,0$ Hz), 7,31 (d, 2H, $J = 8,7$ Hz), 7,43 (s, 1H).

I-83

60

p.f. = 264-265°C

65 RMN- ^1H (DMSO- d_6) δ ppm = 1,27 (s, 9H), 1,27-1,52 (m, 4H), 1,78-1,88 (m, 2H), 1,90-2,00 (m, 2H), 2,14-2,26 (m, 1H), 2,96-3,14 (m, 1H), 6,72-6,82 (m, 2H), 6,99 (t, 4H, $J = 7,8$ Hz), 7,18 (t, 2H, $J = 7,5$ Hz), 7,46 (d, 2H, $J = 9,0$ Hz), 8,00 (s, 1H), 9,65 (s, 1H).

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I-84

p.f. = 257°C (descomp.)

5 RMN- ^1H (DMSO- d_6) δ ppm = 1,23-1,57 (m, 4H), 1,27 (s, 9H), 1,83-2,03 (m, 4H), 2,23-2,35 (m, 1H), 2,98-3,15 (m, 1H), 6,80 (d, 1H, J = 8,1 Hz), 7,87 (d, 2H, J = 9,0 Hz), 8,34 (d, 2H, J = 9,0 Hz), 9,21 (s, 1H), 10,20 (s, 1H).

I-85

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p.f. = 256-258°C

15 RMN- ^1H (DMSO- d_6) δ ppm = 1,22-1,53 (m, 4H), 1,26 (s, 9H), 1,79-2,01 (m, 4H), 2,25 (s, 3H), 2,28-2,42 (m, 1H), 2,97-3,02 (m, 1H), 6,71 (d, 1H, J = 0,9 Hz), 6,80 (d, 1H, J = 8,1 Hz), 11,91 (s, 1H).

I-86

p.f. = 228-230°C

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25 RMN- ^1H (CD_3OD) δ ppm = 1,36 (s, 9H), 1,36-1,48 (m, 2H), 1,55-1,70 (m, 2H), 1,87-1,98 (m, 2H), 2,08-2,17 (m, 2H), 2,20-2,32 (m, 1H), 3,15-3,27 (m, 1H), 3,50 (t, 4H, J = 5,7 Hz), 3,69 (t, 4H, J = 5,7 Hz), 6,72 (d, 2H, J = 9,0 Hz), 7,29-7,33 (m, 2H).

I-87

p.f. = 183-184°C

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35 RMN- ^1H (DMSO- d_6) δ ppm = 1,27 (s, 9H), 1,27-1,48 (m, 4H), 1,73-1,89 (m, 4H), 1,90-2,00 (m, 2H), 2,16-2,28 (m, 1H), 2,28 (t, 2H, J = 7,5 Hz), 2,51-2,54 (m, 2H), 2,97-3,13 (m, 1H), 3,58 (s, 3H), 6,79 (d, 1H, J = 8,7 Hz), 7,08 (d, 2H, J = 8,7 Hz), 7,49 (d, 2H, J = 8,4 Hz), 9,73 (s, 1H).

35 I-88

p.f. = 217-218°C

40 RMN- ^1H (CD_3OD) δ ppm = 1,36 (s, 9H), 1,36-1,46 (m, 2H), 1,55-1,69 (m, 2H), 1,83-2,00 (m, 4H), 2,07-2,18 (m, 2H), 2,26-2,36 (m, 3H), 2,61 (t, 2H, J = 7,5 Hz), 3,14-3,26 (m, 1H), 7,13 (d, 2H, J = 8,1 Hz), 7,44 (d, 2H, J = 8,1 Hz).

I-89

45 RMN- ^1H (CDCl_3) δ ppm = 0,08 (d, 6H, J = 3,3 Hz), 0,88 (s, 9H), 1,21-1,36 (m, 2H), 1,39 (s, 9H), 1,61-1,74 (m, 2H), 1,88-2,23 (m, 6H), 3,06-3,11 (m, 1H), 3,24-3,74 (m, 4H), 3,92 (d, 1H, J = 9,6 Hz), 4,48-4,56 (m, 1H), 6,47 (d, 2H, J = 9,0 Hz), 7,17 (s, 1H), 7,32 (d, 2H, J = 9,0 Hz).

50 I-90

p.f. = amorfo

55 RMN- ^1H (CD_3OD) δ ppm = 1,36 (s, 9H), 1,36-1,47 (m, 2H), 1,56-1,70 (m, 3H), 1,88-2,30 (m, 6H), 3,05-3,49 (m, 5H), 4,50 (ancha s, 1H), 6,50 (d, 2H, J = 9,0 Hz), 7,29 (d, 2H, J = 9,0 Hz).

I-91

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p.f. = 105-106°C

65 RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,3 Hz), 1,25-1,27 (m, 2H), 1,36 (d, 6H, J = 6,9 Hz), 1,51-1,59 (m, 2H), 2,56 (t, 2H, J = 7,8 Hz), 3,27 (sept, 1H, J = 6,9 Hz), 7,12 (d, 2H, J = 8,6 Hz), 7,32 (t, 1H, J = 7,8 Hz), 7,45 (ancha d, 1H, J = 7,8 Hz), 7,53 (d, 2H, J = 8,6 Hz), 7,58 (d, 1H, J = 7,8 Hz), 7,71-7,72 (m, 2H), 8,27 (s, 1H).

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I-92

p.f. = 163-164°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,32-1,39 (m, 2H), 1,55-1,65 (m, 2H), 1,87 (s, 3H), 1,95 (s, 3H), 2,60 (t, 2H, J = 7,6 Hz), 7,07 (d, 2H, J = 8,4 Hz), 7,18 (d, 2H, J = 8,5 Hz), 7,54 (d, 2H, J = 8,5 Hz), 7,91 (ancha s, 1H), 8,18 (d, 2H, J = 8,4 Hz), 8,77 (s, 1H).

10 I-93

p.f. = 173°C

15 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,32-1,40 (m, 2H), 1,39 (d, 6H, J = 6,9 Hz), 1,55-1,62 (m, 2H), 2,60 (t, 2H, J = 7,8 Hz), 3,13 (sept, 1H, J = 6,9 Hz), 4,39 (d, 2H, J = 6,3 Hz), 4,45 (t, 1H, J = 6,3 Hz), 7,18 (d, 2H, J = 8,7 Hz), 7,46 (d, 2H, J = 8,7 Hz), 7,54 (d, 2H, J = 8,7 Hz), 7,80 (s, 1H), 7,85 (d, 2H, J = 8,7 Hz).

I-94

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p.f. = 159-160°C

25 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,32-1,39 (m, 2H), 1,54-1,80 (m, 2H), 1,79 (s, 3H), 1,80 (s, 3H), 2,60 (t, 2H, J = 7,7 Hz), 3,18 (s, 3H), 7,18 (d, 2H, J = 8,5 Hz), 7,30 (d, 2H, J = 8,8 Hz), 7,52 (d, 2H, J = 8,5 Hz), 7,70 (ancha s, 1H), 7,84 (d, 2H, J = 8,8 Hz), 8,77 (s, 1H).

I-95

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p.f. = 177-178°C

35 RMN- ^1H (CDCl_3) δ ppm = 0,94 (t, 3H, J = 7,2 Hz), 1,31-1,48 (m, 8H), 1,54-1,66 (m, 2H), 2,55 (s, 3H), 2,62 (t, 2H, J = 7,6 Hz), 3,92 (sept, 1H, J = 6,6 Hz), 7,20 (d, 2H, J = 8,45 Hz), 7,74 (d, 2H, J = 8,5 Hz), 9,01 (ancha s, 1H), 9,17 (s, 1H).

I-96

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p.f. = 220-223°C

45 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,28-1,42 (m, 2H), 1,50 (d, 6H, J = 6,8 Hz), 1,54-1,65 (m, 2H), 2,62 (t, 2H, J = 7,6 Hz), 4,08 (sept, 1H, J = 7,1 Hz), 7,20 (d, 2H, J = 8,5 Hz), 7,48 (d, 2H, J = 8,5 Hz), 7,71 (ancha s, 1H), 8,51 (ancha s, 1H), 8,95 (s, 1H).

I-97

45

p.f. = 195-197°C

50 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,6 Hz), 0,94 (t, 3H, J = 7,3 Hz), 1,32-1,44 (m, 6H), 1,54-1,64 (m, 2H), 1,66-1,78 (m, 2H), 2,62 (t, 2H, J = 7,7 Hz), 2,86 (ancha s, 2H), 3,98 (sept, 1H, J = 7,1 Hz), 7,19 (d, 2H, J = 8,5 Hz), 7,63 (d, 2H, J = 8,4 Hz), 8,72 (ancha s, 1H), 8,81 (ancha s, 1H).

55 I-98

p.f. = 216-218°C

60 RMN- ^1H ($\text{CDCl}_3 + \text{CD}_3\text{OD}$) δ ppm = 0,93 (t, 3H, J = 7,4 Hz), 1,29-1,40 (m, 2H), 1,43 (d, 2H, J = 6,9 Hz), 1,51-1,63 (m, 2H), 2,60 (t, 2H, J = 7,8 Hz), 3,65 (sept, 1H, J = 6,9 Hz), 7,18 (d, 2H, J = 8,5 Hz), 7,22 (d, 1H, J = 8,8 Hz), 7,55 (d, 2H, J = 8,5 Hz), 8,18 (dd, 1H, J = 8,8, 2,4 Hz), 8,63 (d, 1H, J = 2,4 Hz).

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I-99

p.f. = 201-202°C

5 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,22-1,40 (m, 2H), 1,49 (d, 2H, J = 7,1 Hz), 1,51-1,63 (m, 2H), 2,59 (t, 2H, J = 7,7 Hz), 4,22 (sept, 1H, J = 7,1 Hz), 7,16 (d, 2H, J = 8,4 Hz), 7,41 (ancha s, 1H), 7,52 (d, 2H, J = 8,4 Hz), 8,10 (ancha s, 1H), 8,13 (d, 1H, J = 2,2 Hz), 8,61 (ancha s, 1H).

10 I-100

p.f. = 160-162°C

15 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,22-1,42 (m, 2H), 1,45 (d, 2H, J = 6,9 Hz), 1,51-1,63 (m, 2H), 2,61 (t, 2H, J = 7,8 Hz), 3,37 (sept, 1H, J = 6,9 Hz), 6,89 (ancha s, 1H), 7,19 (d, 2H, J = 8,4 Hz), 7,65 (d, 2H, J = 8,4 Hz), 7,80 (dd, 1H, J = 8,4, 2,4 Hz), 8,27 (d, 1H, J = 8,4 Hz), 8,45 (d, 1H, J = 2,4 Hz), 9,75 (ancha s, 1H).

I-101, I-214

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p.f. = 192-194°C

25 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,27-1,41 (m, 2H), 1,35 (s, 9H), 1,50-1,66 (m, 2H), 2,60 (t, 2H, J = 7,6 Hz), 5,58 (ancha s, 1H), 7,07 (d, 2H, J = 8,5 Hz), 7,17 (d, 2H, J = 8,5 Hz), 7,52 (d, 2H, J = 8,5 Hz), 7,71 (ancha s, 1H), 7,79 (d, 2H, J = 8,5 Hz).

I-102

30 p.f. = 216-217°C

35 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,26-1,42 (m, 2H), 1,45 (s, 9H), 1,70-1,83 (m, 2H), 2,60 (t, 2H, J = 7,7 Hz), 6,42 (ancha s, 1H), 7,18 (d, 2H, J = 8,5 Hz), 7,35 (d, 2H, J = 8,5 Hz), 7,51 (d, 2H, J = 8,5 Hz), 7,68 (ancha s, 1H), 7,82 (d, 2H, J = 8,5 Hz).

I-103

40 RMN-H¹ (CDCl₃) δ ppm = 0,91 (t, 3H, J = 7,3 Hz), 1,28-1,36 (m, 2H), 1,32 (d, 6H, J = 6,9 Hz), 1,49-1,59 (m, 2H), 2,54 (t, 2H, J = 7,7 Hz), 3,23 (sept, 1H, J = 6,9 Hz), 3,46 (s, 3H), 6,76 (ancha s, 1H), 6,91 (d, 2H, J = 8,2 Hz), 6,99 (d, 2H, J = 8,8 Hz), 7,03 (d, 2H, J = 8,2 Hz), 7,25 (d, 2H, J = 8,8 Hz).

I-104

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p.f. = 182-183°C

50 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,28-1,40 (m, 2H), 1,51-1,63 (m, 2H), 1,64-1,88 (m, 4H), 1,90-2,23 (m, 4H), 2,60 (t, 2H, J = 7,6 Hz), 3,39 (m, 1H), 6,16 (ancha s, 1H), 7,07 (d, 2H, J = 8,5 Hz), 7,16 (d, 2H, J = 8,5 Hz), 7,52 (d, 2H, J = 8,5 Hz), 7,74 (ancha s, 1H), 7,77 (d, 2H, J = 8,5 Hz).

I-105

55 p.f. = 190-191°C

60 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,28-1,41 (m, 2H), 1,52-1,69 (m, 4H), 1,75-1,90 (m, 2H), 1,92-2,07 (m, 4H), 2,58 (t, 2H, J = 7,6 Hz), 3,59 (m, 1H), 6,53 (ancha s, 1H), 7,18 (d, 2H, J = 8,5 Hz), 7,31 (d, 2H, J = 8,5 Hz), 7,52 (d, 2H, J = 8,5 Hz), 7,67 (ancha s, 1H), 7,84 (d, 2H, J = 8,5 Hz).

I-106

p.f. = 194-197°C

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RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,22-1,41 (m, 2H), 1,53-1,65 (m, 2H), 1,90 (s, 6H), 2,60 (t, 2H, J = 7,8 Hz), 6,86 (ancha s, 1H), 7,18 (d, 2H, J = 8,5 Hz), 7,43 (d, 2H, J = 8,5 Hz), 7,51 (d, 2H, J = 8,5 Hz), 7,71 (ancha s, 1H), 7,84 (d, 2H, J = 8,5 Hz).

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I-107

p.f. = 211-212°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,24-1,40 (m, 2H), 1,50-1,62 (m, 2H), 2,60 (t, 2H, J = 7,6 Hz), 6,19 (ancha s, 1H), 7,17 (d, 2H, J = 8,5 Hz), 7,18 (d, 2H, J = 8,5 Hz), 7,51 (d, 2H, J = 8,5 Hz), 7,66 (ancha s, 1H), 7,86 (d, 2H, J = 8,5 Hz).

10 I-108

p.f. = 298-300°C

15 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 0,90 (t, 3H, J = 7,3 Hz), 1,22-1,39 (m, 2H), 1,48-1,60 (m, 2H), 2,54 (t, 2H, J = 7,3 Hz), 7,04 (d, 2H, J = 8,8 Hz), 7,12 (d, 2H, J = 8,5 Hz), 7,64 (d, 2H, J = 8,5 Hz), 7,69 (d, 2H, J = 8,8 Hz), 9,80 (s, 1H).

I-109

20 p.f. = 122-123°C

25 RMN- ^1H (CDCl_3) δ ppm = 0,90 (t, 3H, J = 7,4 Hz), 0,97 (t, 3H, J = 7,7 Hz), 1,26-1,38 (m, 2H), 1,30 (s, 6H), 1,50-1,66 (m, 4H), 1,72-1,83 (m, 4H), 2,34 (t, 2H, J = 7,1 Hz), 2,55 (t, 2H, J = 7,6 Hz), 3,19 (q, 1H, J = 6,0 Hz), 4,60 (ancha s, 1H), 7,08 (d, 2H, J = 8,5 Hz), 7,42 (d, 2H, J = 8,5 Hz), 7,85 (s, 1H).

I-110

p.f. = 109-110°C

30 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,4 Hz), 1,10 (d, 6H, J = 6,7 Hz), 1,29-1,38 (m, 2H), 1,55 (s, 9H), 1,60-1,70 (m, 2H), 1,78-1,89 (m, 2H), 2,26 (m, 1H), 2,39 (t, 2H, J = 7,0 Hz), 2,57 (t, 2H, J = 7,7 Hz), 2,90 (d, 2H, J = 6,6 Hz), 3,16 (ancha s, 1H), 4,24 (ancha s, 1H), 7,12 (d, 2H, J = 8,5 Hz), 7,40 (d, 2H, J = 8,5 Hz).

35 I-111

p.f. = 64-65°C

40 ^1H -NMR, (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,3 Hz), 1,02 (t, 3H, J = 7,5 Hz), 1,35 (d, 3H, J = 6,7 Hz), 1,26-1,38 (m, 2H), 1,48-1,69 (m, 5H), 1,76-1,87 (m, 2H), 2,04 (m, 1H), 2,38 (t, 2H, J = 7,3 Hz), 2,56 (t, 2H, J = 7,6 Hz), 2,91 (m, 1H), 3,16 (ancha s, 2H), 4,42 (ancha s, 1H), 7,11 (d, 2H, J = 8,5 Hz), 7,42 (d, 2H, J = 8,5 Hz), 7,47 (ancha s, 1H).

45 I-112

p.f. = 79-80°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,36 (s, 9H), 1,52-1,62 (m, 2H), 1,67-1,76 (m, 2H), 2,22 (t, 2H, J = 7,4 Hz), 3,16 (q, 2H, J = 6,3 Hz), 3,78 (s, 3H), 4,33 (d, 2H, J = 5,4 Hz), 4,62 (ancha s, 1H), 6,20 (ancha s, 1H), 6,85 (d, 2H, J = 8,8 Hz), 7,19 (d, 2H, J = 8,8 Hz).

I-113

55 p.f. = 125-126°C

60 ^1H -NMR, (CDCl_3) δ ppm = 1,38 (s, 9H), 1,62-1,70 (m, 2H), 1,76-1,88 (m, 2H), 2,46 (t, 2H, J = 7,4 Hz), 3,22 (q, 2H, J = 6,1 Hz), 4,22 (t, 1H, J = 6,1 Hz), 7,24 (dd, 1H, J = 8,9, 2,3 Hz), 7,36 (d, 1H, J = 2,3 Hz), 7,65 (ancha s, 1H), 8,29 (d, 1H, J = 8,9 Hz).

I-114

p.f. = 89-91°C

65 RMN- ^1H (CDCl_3) δ ppm = 0,92 (t, 3H, J = 7,0 Hz), 1,06 (d, 6H, J = 7,0 Hz), 1,36 (m, 1H), 1,50-1,72 (m, 5H), 1,94-2,06 (m, 2H), 2,26 (m, 1H), 2,60 (t, 2H, J = 7,7 Hz), 2,84 (t, 2H, J = 7,7 Hz), 2,93 (d, 2H, J = 6,3 Hz), 3,20 (t, 2H, J = 6,6 Hz), 4,30 (ancha s, 1H), 7,19 (d, 2H, J = 8,5 Hz), 7,63 (d, 2H, J = 8,5 Hz), 9,15 (ancha s, 1H).

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I-115

p.f. = 94-95°C

5 RMN-H¹ (CDCl₃) δ ppm = 0,92 (t, 3H, J = 7,5 Hz), 1,03 (t, 3H, J = 7,5 Hz), 1,23-1,40 (m, 5H), 1,42-1,65 (m, 6H), 1,75 (m, 1H), 2,02 (m, 1H), 2,24 (t, 2H, J = 7,0 Hz), 2,59 (t, 2H, J = 8,0 Hz), 2,90 (m, 1H), 3,14 (q, 2H, J = 6,6 Hz), 4,20 (m, 1H), 4,40 (d, 2H, J = 5,4 Hz), 5,70 (ancha s, 1H), 7,14 (d, 2H, J = 8,1 Hz), 7,18 (d, 2H, J = 8,1 Hz).

10 I-116

p.f. = 89-91°C

15 RMN-H¹ (CDCl₃) δ ppm = 0,97 (t, 3H, J = 7,3 Hz), 1,02 (t, 3H, J = 7,5 Hz), 1,35 (d, 3H, J = 7,0 Hz), 1,40-1,90 (m, 9H), 2,04 (m, 1H), 2,37 (t, 2H, J = 7,0 Hz), 2,90 (m, 1H), 3,17 (q, 2H, J = 6,6 Hz), 3,93 (t, 2H, J = 6,6 Hz), 4,32 (m, 1H), 6,84 (d, 2H, J = 9,0 Hz), 7,31 (ancha s, 1H), 7,40 (d, 2H, J = 9,0 Hz).

I-117

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p.f. = 110-111°C

25 RMN-H¹ (CDCl₃) δ ppm = 1,02 (t, 3H, J = 7,5 Hz), 1,34 (d, 3H, J = 6,6 Hz), 1,45-1,70 (m, 3H), 1,75-1,85 (m, 2H), 2,05 (m, 1H), 2,36 (t, 2H, J = 7,5 Hz), 2,90 (m, 1H), 3,16 (q, 2H, J = 6,6 Hz), 3,78 (s, 3H), 4,50 (m, 1H), 6,84 (d, 2H, J = 6,8 Hz), 7,42 (d, 2H, J = 6,8 Hz), 7,48 (ancha s, 1H).

I-118

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p.f. = 113-115°C

35 RMN-H¹ (CDCl₃) δ ppm = 0,92 (t, 3H, J = 7,0 Hz), 1,20-1,34 (m, 1H), 1,37 (d, 6H, J = 7,0 Hz), 1,48-1,70 (m, 3H), 2,43 (q, 2H, J = 6,6 Hz), 2,58 (t, 2H, J = 7,7 Hz), 3,10-3,31 (m, 3H), 4,75 (m, 1H), 6,04 (d, 1H, J = 15,0 Hz), 6,77 (dt, 1H, J = 7,7, 15,0 Hz), 7,14 (d, 2H, J = 8,4 Hz), 7,55 (d, 2H, J = 8,4 Hz), 7,85 (ancha s, 1H).

I-119

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p.f. = 139-140°C

45 RMN-H¹ (CDCl₃) δ ppm = 1,19 (s, 9H), 1,47 (m, 2H), 1,61 (m, 2H), 2,18 (t, 2H, J = 7,6 Hz), 3,03 (q, 2H, J = 6,3 Hz), 4,09 (t, 1H, J = 5,9 Hz), 6,85 (ancha d, 1H, J = 8,0 Hz), 7,00 (t, 1H, J = 8,0 Hz), 7,16 (ancha d, 1H, J = 8,0), 7,48 (ancha s, 1H), 7,57 (ancha s, 1H).

I-120

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p.f. = 183°C

55 RMN-H¹ (CDCl₃) δ ppm = 0,91 (t, 3H, J = 7,3 Hz), 1,20-1,58 (m, 6H), 1,40 (s, 9H), 2,07 (dd, 1H, J = 12,9, 3,1 Hz), 2,52 (t, 2H, J = 7,7 Hz), 2,95 (dd, 2H, J = 11,5, 2,5 Hz), 3,46 (m, 1H), 3,88-4,07 (m, 3H), 6,47 (s, 1H), 7,08 (d, 2H, J = 8,5 Hz), 7,22 (d, 2H, J = 8,5 Hz).

55 I-121

p.f. = 163-166°C

60 RMN-H¹ (CDCl₃) δ ppm = 0,91 (t, 3H, J = 7,3 Hz), 1,32-1,62 (m, 6H), 1,45 (s, 9H), 1,95-2,07 (m, 3H), 2,20 (m, 1H), 2,46 (td, 1H, J = 10,4, 3,7 Hz), 2,37 (t, 2H, J = 7,6 Hz), 3,43 (ancha d, 2H, J = 10,4 Hz), 4,80 (s, 1H), 7,12 (d, 2H, J = 8,4 Hz), 7,14 (s, 1H), 7,39 (d, 2H, J = 8,4 Hz).

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I-122

p.f. = 188-189°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,25-1,41 (m, 2H), 1,42 (s, 9H), 1,50-1,62 (m, 2H), 1,78-1,95 (m, 4H), 2,00-2,20 (m, 6H), 2,57 (t, 2H, J = 7,5 Hz), 3,99 (ancha s, 1H), 7,10 (ancha s, 1H), 7,12 (d, 2H, J = 6,5 Hz), 7,41 (d, 2H, J = 6,5 Hz).

10 I-123

p.f. = 197-198°C

15 RMN- ^1H (CDCl_3) δ ppm = 0,91 (t, 3H, J = 7,5 Hz), 1,24-1,40 (m, 2H), 1,39 (s, 9H), 1,50-1,70 (m, 2H), 1,99 (ancha s, 12H), 2,56 (t, 2H, J = 7,5 Hz), 3,47 (ancha s, 1H), 7,10 (s, 1H), 7,11 (d, 2H, J = 8,5 Hz), 7,38 (d, 2H, J = 8,5 Hz).

I-124

20 p.f. = 258-260°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,40 (m, 2H), 1,41 (s, 9H), 1,62-1,81 (m, 2H), 2,03-2,35 (m, 5H), 2,37 (s, 3H), 2,71 (s, 3H), 3,32 (m, 1H), 3,64 (d, 1H, J = 8,4 Hz), 7,08 (ancha s, 1H), 7,24 (m, 1H), 7,33 (m, 2H), 7,60 (d, 1H, J = 8,1 Hz), 7,77 (s, 1H), 7,80 (d, 1H, J = 8,4 Hz), 8,14 (m, 1H).

I-125

p.f. = 297-299°C

30 ^1H -NMR- $(\text{DMSO}-d_6)$ δ ppm = 1,27 (s, 9H), 1,28-1,56 (m, 4H), 1,80-2,01 (m, 4H), 2,47 (m, 1H), 2,76 (ancha s, 1H), 3,05 (m, 2H), 6,78 (d, 1H, J = 9,0 Hz), 7,23 (d, 1H, J = 9,0 Hz), 7,46 (dd, 1H, J = 2,0, 9,0 Hz), 8,03 (d, 1H, J = 2,0 Hz).

35 I-126

p.f. = 198-199°C

40 RMN- ^1H (CDCl_3) δ ppm = 1,18-1,39 (m, 2H), 1,40 (s, 9H), 1,60-1,79 (m, 2H), 1,98-2,35 (m, 5H), 3,30 (m, 1H), 3,67 (d, 1H, J = 9,6 Hz), 5,89 (tt, 1H, J = 3,0, 50,0 Hz), 6,97 (d, 1H, J = 7,8 Hz), 7,21 (s, 1H), 7,30, 7,40 (m, 2H), 7,55 (s, 1H).

45 I-127

p.f. = 262-264°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,39 (m, 2H), 1,41 (s, 9H), 1,60-1,80 (m, 2H), 2,00-2,36 (m, 5H), 2,57 (s, 3H), 3,33 (m, 1H), 3,62 (d, 1H, J = 8,7 Hz), 7,28 (ancha s, 1H), 7,62 (d, 2H, J = 8,7 Hz), 7,94 (d, 2H, J = 8,7 Hz).

I-128

55 p.f. = 252-254°C

RMN- ^1H (CDCl_3) δ ppm = 1,18-1,39 (m, 2H), 1,40 (s, 9H), 1,58-1,79 (m, 2H), 1,99-2,30 (m, 5H), 2,46 (s, 3H), 3,32 (m, 1H), 3,64 (m, 1H), 7,11 (ancha s, 1H), 7,23 (d, 2H, J = 9,0 Hz), 7,44 (d, 2H, J = 9,0 Hz).

60 I-129

p.f. = >300°C

65 RMN- ^1H ($\text{CDCl}_3 + \text{CD}_3\text{OD}$) δ ppm = 1,30-1,45 (m, 2H), 1,42 (s, 9H), 1,70-1,88 (m, 2H), 2,10-2,37 (m, 4H), 2,52 (m, 1H), 3,34 (m, 1H), 7,43-7,54 (m, 3H), 7,82 (d, 1H, J = 6,7 Hz), 7,88 (d, 1H, J = 8,5 Hz), 7,98-8,07 (m, 2H), 8,44 (s, 1H), 8,46 (s, 1H).

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I-130

p.f. = 123-124°C

5 RMN-H¹ (CDCl₃) δ ppm = 1,18-1,34 (m, 2H), 1,40 (s, 9H), 1,62-1,75 (m, 2H), 2,00-2,28 (m, 5H), 3,31 (m, 1H), 3,61 (d, 1H, J = 9,5 Hz), 5,59 (s, 1H), 7,17 (s, 1H), 7,30-7,37 (m, 6H), 7,41 (d, 1H, J = 8,5 Hz), 7,84 (d, 1H, J = 2,1 Hz).

I-131

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p.f. = 202-204°C

15 RMN-H¹ (CDCl₃) δ ppm = 1,27-1,38 (m, 2H), 1,38 (s, 9H), 1,62-1,75 (m, 2H), 1,97-2,04 (m, 2H), 2,18-2,27 (m, 3H), 3,26 (m, 1H), 3,81 (s, 3H), 4,62 (d, 1H, J = 7,9 Hz), 7,12 (d, 1H, J = 7,8 Hz), 7,40 (t, 1H, J = 7,8 Hz), 7,51 (s, 3H), 7,61 (d, 1H, J = 7,8 Hz), 7,71 (s, 1H), 8,21 (ancha s, 1H).

I-132

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p.f. = 236-237°C

25 RMN-H¹ (CDCl₃) δ ppm = 1,23-1,43 (m, 2H), 1,41 (s, 9H), 1,66-1,80 (m, 2H), 2,08-2,12 (m, 2H), 2,23-2,31 (m, 3H), 3,34 (m, 1H), 3,87 (d, 1H, J = 9,5 Hz), 4,02 (s, 3H), 7,30 (td, 1H, J = 7,3, 1,1 Hz), 7,36 (s, 1H), 7,39 (td, 1H, J = 7,3, 1,5 Hz), 7,53 (ancha d, 1H, J = 7,3 Hz), 7,84 (ancha d, 1H, J = 7,3 Hz), 8,05 (s, 1H), 8,73 (s, 1H).

I-133

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p.f. = 198-200°C

35 RMN-H¹ (CDCl₃) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 0,97 (t, 3H, J = 6,7 Hz), 1,18-1,81 (m, 7H), 1,39 (s, 9H), 1,98-2,05 (m, 2H), 2,21-2,24 (m, 3H), 3,29 (m, 1H), 4,00 (dd, 1H, J = 10,7, 6,7 Hz), 4,09 (dd, 1H, J = 10,7, 6,1 Hz), 4,27 (d, 1H, J = 9,8 Hz), 6,37 (d, 1H, J = 15,9 Hz), 7,47 (d, 2H, J = 8,5 Hz), 7,59 (d, 2H, J = 8,5 Hz), 7,62 (d, 1H, J = 15,9 Hz), 7,83 (ancha s, 1H).

I-134

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p.f. = 212-213°C

45 RMN-H¹ (CDCl₃) δ ppm = 1,21-1,32 (m, 2H), 1,39 (s, 9H), 1,59-1,73 (m, 2H), 1,99-2,04 (m, 2H), 2,10-2,26 (m, 3H), 3,26 (m, 1H), 3,72 (d, 1H, J = 9,6 Hz), 6,74 (m, 1H), 7,02 (d, 2H, J = 7,4 Hz), 7,11 (t, 1H, J = 7,4 Hz), 7,13-7,19 (m, 2H), 7,22-7,26 (m, 2H), 7,34 (t, 2H, J = 7,4 Hz).

I-135

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p.f. = 294-296°C

55 RMN-H¹ (DMSO-d₆) δ ppm = 1,27 (s, 9H), 1,28-1,55 (m, 4H), 1,81-2,05 (m, 4H), 2,26 (m, 1H), 2,98-3,20 (m, 2H), 6,78 (d, 1H, J = 9,0 Hz), 7,31 (t, 1H, J = 7,5 Hz), 7,54-7,72 (m, 5H), 7,94 (ancha s, 1H).

I-136

55

p.f. = >300°C

60 RMN-H¹ (DMSO-d₆) δ ppm = 1,28 (s, 9H), 1,29-1,59 (m, 4H), 1,81-2,02 (m, 4H), 2,27 (m, 1H), 3,06 (m, 1H), 6,81 (d, 1H, J = 8,7 Hz), 7,38 (t, 1H, J = 7,2 Hz), 7,48 (t, 2H, J = 7,2 Hz), 7,62-7,81 (m, 10H), 9,93 (ancha s, 1H).

I-137

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p.f. = 291-292°C

RMN-H¹ (CDCl₃) δ ppm = 1,25-1,39 (m, 2H), 1,41 (s, 9H), 1,61-1,80 (m, 2H), 2,01-2,36 (m, 5H), 3,32 (m, 1H), 3,63 (d, 1H, J = 9,3 Hz), 7,20 (ancha s, 1H), 7,53-7,74 (m, 8H).

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I-138

p.f. = 259-262°C

5 RMN- ^1H (CD_3OD) δ ppm = 1,40 (s, 9H), 1,40-1,80 (m, 4H), 2,00-2,30 (m, 4H), 2,45 (m, 1H), 3,00 (s, 3H), 3,15-3,30 (m, 2H), 7,90 (d, 1H, J = 8,4 Hz), 8,12 (d, 1H, J = 9,0 Hz), 8,39 (d, 1H, J = 9,0 Hz), 8,72 (s, 1H), 8,92 (d, 1H, J = 8,4 Hz), 10,4 (s, 1H).

10 I-139

p.f. = 265-268°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,25-1,40 (m, 2H), 1,40 (s, 9H), 1,68-1,81 (m, 2H), 2,05-2,10 (m, 2H), 2,23-2,37 (m, 3H), 3,32 (m, 1H), 4,27 (d, 1H, J = 9,1 Hz), 7,53 (t, 1H, J = 7,9 Hz), 7,63 (td, 1H, J = 7,9, 1,4 Hz), 7,77 (d, 1H, J = 7,9 Hz), 8,03 (d, 1H, J = 7,9 Hz), 8,37 (ancha s, 1H), 8,85-8,86 (m, 2H).

I-140

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p.f. = 258-260°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,40 (m, 2H), 1,41 (s, 9H), 1,52-1,85 (m, 2H), 2,03-2,35 (m, 5H), 3,34 (m, 1H), 3,75 (m, 1H), 7,35-7,66 (m, 3H), 8,05 (d, 1H, J = 9,0 Hz), 8,11 (d, 1H, J = 9,0 Hz), 8,40 (ancha s, 1H), 8,83 (s, 1H).

I-141

p.f. = 205-206°C

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RMN- ^1H (CDCl_3) δ ppm = 1,20-1,37 (m, 2H), 1,40 (s, 9H), 1,43-1,62 (m, 2H), 1,90-2,01 (m, 2H), 2,02-2,23 (m, 3H), 3,27 (m, 1H), 3,63 (d, 1H, J = 9,6 Hz), 3,70 (s, 3H), 6,64 (d, 1H, J = 8,8 Hz), 7,28-7,41 (m, 5H), 7,45 (ancha s, 1H), 8,26 (d, 1H, J = 8,8 Hz).

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I-142

p.f. = 277-280°C

40 RMN- ^1H (CDCl_3) δ ppm = 0,23-0,34 (m, 2H), 1,34 (s, 9H), 1,34-1,55 (m, 5H), 1,76-1,80 (m, 2H), 2,97 (m, 1H), 3,31 (d, 1H, J = 9,6 Hz), 7,18 (s, 1H), 7,50-7,59 (m, 4H), 7,77 (dd, 1H, J = 7,4, 1,0 Hz), 7,91-7,98 (m, 2H), 8,39 (dd, 1H, J = 7,4, 1,9 Hz).

45 I-143

p.f. = 202-203°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,23-1,40 (m, 2H), 1,40 (s, 9H), 1,57-1,71 (m, 2H), 2,05-2,10 (m, 2H), 2,18-2,28 (m, 3H), 3,31 (m, 1H), 3,91 (s, 3H), 3,93 (s, 3H), 4,05 (d, 1H, J = 9,5 Hz), 8,15 (s, 1H), 9,56 (s, 1H).

I-144

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p.f. = 177-178°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,27-1,39 (m, 2H), 1,40 (s, 9H), 1,65-1,79 (m, 2H), 2,04-2,07 (m, 2H), 2,12-2,34 (m, 3H), 3,22 (m, 1H), 3,93 (d, 1H, J = 9,1 Hz), 6,90-7,03 (m, 3H), 7,25 (m, 1H), 7,77 (dd, 1H, J = 4,9, 1,7 Hz), 7,81 (ancha s, 1H), 8,72 (dd, 1H, J = 7,8, 1,5 Hz).

I-145

p.f. = >300°C

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RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,30 (s, 9H), 1,44-1,70 (m, 4H), 2,05-2,19 (m, 4H), 2,73 (m, 1H), 3,18 (m, 1H), 6,86 (d, 1H, J = 8,8 Hz), 7,62 (t, 2H, J = 8,5 Hz), 7,86 (t, 2H, J = 8,5 Hz), 7,89 (d, 2H, J = 8,5 Hz), 8,16 (d, 2H, J = 8,5 Hz).

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I-146

p.f. = 240-242°C

5 RMN-H¹ (DMSO-d₆) δ ppm = 1,26-1,53 (m, 4H), 1,27 (s, 9H), 1,74-1,83 (m, 2H), 1,90-1,97 (m, 2H), 2,26 (m, 1H), 3,04 (m, 1H), 6,59 (ancha s, 1H), 6,74-6,79 (m, 3H), 7,74 (s, 1H), 10,32 (s, 1H), 12,80 (s, 1H).

I-147

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p.f. = 167-169°C

15 RMN-H¹ (CDCl₃) δ ppm = 1,05-1,28 (m, 2H), 1,38 (s, 9H), 1,47-1,70 (m, 2H), 1,80-2,00 (m, 3H), 2,13-2,25 (m, 2H), 2,75 (t, 2H, J = 6,9 Hz), 3,24 (m, 1H), 3,49 (dt, 2H, J = 6,3, 6,9 Hz), 3,58 (d, 1H, J = 8,7 Hz), 3,87 (s, 6H), 5,40 (ancha s, 1H), 6,71 (m, 2H), 6,82 (d, 1H, J = 8,7Hz).

I-148

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p.f. = 171-172°C

25 RMN-H¹ (CDCl₃) δ ppm = 1,16-1,38 (m, 2H), 1,39 (s, 9H), 1,50-1,79 (m, 4H), 1,85-2,02 (m, 3H), 2,15-2,30 (m, 2H), 2,35-2,56 (m, 6H), 3,25 (m, 1H), 3,33 (q, 2H, J = 6,0 Hz), 3,63 (d, 1H, J = 9,0 Hz), 3,72 (t, 4H, J = 4,6 Hz), 6,77 (ancha s, 1H).

I-149

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RMN-H¹ (CDCl₃) δ ppm = 1,20-1,36 (m, 2H), 1,28 (t, 3H, J = 7,2 Hz), 1,39 (s, 9H), 1,45-1,70 (m, 2H), 1,85-2,30 (m, 7H), 2,43 (s, 3H), 3,05-3,42 (m, 3H), 3,46-3,80 (m, 3H), 7,31 (d, 1H, J = 7,2 Hz), 7,40-7,52 (m, 3H), 8,18 (ancha s, 1H).

I-150

35

p.f. = 203-204°C

40 RMN-H¹ (CDCl₃) δ ppm = 1,15-1,37 (m, 2H), 1,39 (s, 9H), 1,42-1,70 (m, 2H), 1,85-2,29 (m, 5H), 2,76 (t, 2H, J = 6,0 Hz), 3,26 (m, 1H), 3,49 (q, 2H, J = 6,0 Hz), 3,61 (m, 1H), 4,03 (s, 2H), 5,88 (ancha s, 1H), 7,15 (dd, 1H, J = 7,0, 8,8 Hz), 7,30-7,35 (m, 2H).

I-151

45

p.f. = 181-183°C

50 RMN-H¹ (CDCl₃) δ ppm = 1,15-1,30 (m, 2H), 1,39 (s, 9H), 1,45-1,64 (m, 2H), 1,88-2,05 (m, 3H), 2,15-2,25 (m, 2H), 2,69 (t, 2H, J = 6,0 Hz), 3,28 (m, 1H), 3,47 (q, 2H, J = 6,0 Hz), 3,58 (d, 1H, J = 9,9 Hz), 3,87 (s, 2H), 5,83 (ancha s, 1H), 7,00 (m, 1H), 7,20 (m, 2H).

I-152

55

p.f. = 222-224°C

60 RMN-H¹ (CDCl₃) δ ppm = 1,16-1,37 (m, 2H), 1,39 (s, 9H), 1,49-1,70 (m, 2H), 1,90-2,25 (m, 5H), 3,26 (m, 1H), 3,36 (t, 2H, J = 6,4 Hz), 3,66 (dt, 3H, J = 6,0, 6,4 Hz), 5,87 (t, 1H, J = 6,0 Hz), 7,58 (s, 1H), 7,68 (dd, 1H, J = 7,0, 8,5 Hz), 7,83 (dd, 1H, J = 7,0, 8,5 Hz), 8,19 (t, 2H, J = 8,5Hz).

I-153

65

p.f. = 207-209°C

RMN-H¹ (CDCl₃) δ ppm = 1,05-1,25 (m, 2H), 1,38 (s, 9H), 1,40-2,03 (m, 10H), 2,05-2,25 (m, 2H), 2,58 (s, 3H), 2,76 (m, 1H), 3,05-3,35 (m, 2H), 3,97 (d, 1H, J = 9,5 Hz), 4,94 (t, 1H, J = 4,0 Hz), 8,42 (d, 1H, J = 5,5 Hz), 8,97 (d, 1H, J = 5,5Hz).

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I-154

p.f. = 184-185°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,05-1,25 (m, 2H), 1,37 (s, 9H), 1,50-1,69 (m, 2H), 1,85-2,05 (m, 3H), 2,10-2,21 (m, 2H), 3,24 (m, 1H), 3,64 (m, 1H), 4,87 (s, 1H), 4,88 (s, 1H), 5,67 (ancha s, 1H), 7,42 (d, 2H, $J = 5,5$ Hz), 7,52 (m, 2H), 7,78 (m, 1H), 7,82 (m, 1H), 7,95 (d, 1H, $J = 7,0$ Hz).

10 I-155

p.f. = 208-210°C

15 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,26 (s, 9H), 1,27-1,50 (m, 4H), 1,75-2,00 (m, 4H), 2,16 (m, 1H), 2,81 (s, 3H), 3,02 (m, 1H), 6,79 (d, 1H, $J = 8,5$ Hz), 10,00 (s, 1H), 10,66 (s, 1H).

I-156

20 p.f. = 256-257°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,39 (m, 2H), 1,41 (s, 9H), 1,60-1,81 (m, 2H), 2,01-2,35 (m, 5H), 2,69 (t, 2H, $J = 6,0$ Hz), 3,11 (t, 2H, $J = 6,0$ Hz), 3,30 (m, 1H), 3,61 (d, 1H, $J = 9,3$ Hz), 7,21 (d, 1H, $J = 8,0$ Hz), 7,31 (s, 1H), 7,70 (d, 1H, $J = 8,0$ Hz), 7,99 (s, 1H).

I-157

p.f. = 269-271°C

30 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,45 (m, 2H), 1,41 (s, 9H), 1,70-1,90 (m, 2H), 2,10-2,45 (m, 5H), 3,37 (m, 1H), 3,68 (m, 1H), 7,45 (dd, 1H, $J = 4,0, 8,0$ Hz), 7,53 (ancha s, 1H), 7,72 (t, 1H, $J = 8,0$ Hz), 7,83 (d, 1H, $J = 8,0$ Hz), 8,02 (d, 1H, $J = 8,0$ Hz), 8,18 (d, 1H, $J = 8,0$ Hz), 8,93 (d, 1H, $J = 4,0$ Hz).

35 I-158

p.f. = 253-255°C

40 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,40 (m, 2H), 1,42 (s, 9H), 1,60-1,90 (m, 2H), 2,06-2,50 (m, 5H), 2,72 (s, 3H), 3,33 (m, 1H), 3,78 (d, 1H, $J = 9,2$ Hz), 7,52 (t, 1H, $J = 7,0$ Hz), 7,62-7,80 (m, 2H), 7,94 (ancha s, 1H), 8,05 (d, 1H, $J = 8,5$ Hz), 8,20 (s, 1H).

45 I-159

p.f. = 253-255°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,39 (m, 2H), 1,40 (s, 9H), 1,60-1,80 (m, 2H), 1,98-2,30 (m, 5H), 2,71 (s, 3H), 3,31 (m, 1H), 3,68 (d, 1H, $J = 9,0$ Hz), 7,41 (ancha s, 1H), 7,61 (d, 2H, $J = 9,0$ Hz), 7,70 (d, 2H, $J = 9,0$ Hz).

I-160

55 p.f. = 211-212°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,32 (m, 2H), 1,39 (t, 3H, $J = 7,0$ Hz), 1,40 (s, 9H), 1,55-1,79 (m, 2H), 1,98-2,35 (m, 5H), 3,31 (m, 1H), 3,65 (d, 1H, $J = 9,5$ Hz), 4,03 (q, 2H, $J = 7,0$ Hz), 6,64 (d, 1H, $J = 8,0$ Hz), 6,92 (d, 1H, $J = 8,0$ Hz), 7,10 (s, 1H), 7,19 (t, 1H, $J = 8,0$ Hz), 7,30 (ancha s, 1H).

I-161

p.f. = 202-203°C

65 RMN- ^1H (CDCl_3) δ ppm = 0,96 (t, 1H, $J = 7,3$ Hz), 1,29-1,39 (m, 2H), 1,40 (s, 9H), 1,41-1,58 (m, 2H), 1,60-1,80 (m, 4H), 1,98-2,31 (m, 5H), 3,31 (m, 1H), 3,66 (d, 1H, $J = 8,5$ Hz), 3,96 (t, 2H, $J = 6,4$ Hz), 6,64 (d, 1H, $J = 8,0$ Hz), 6,90 (d, 1H, $J = 8,0$ Hz), 7,11 (s, 1H), 7,19 (t, 1H, $J = 8,0$ Hz), 7,31 (ancha s, 1H).

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I-162

p.f. = 177-180°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,18-1,38 (m, 2H), 1,39 (s, 9H), 1,59-1,78 (m, 2H), 1,95-2,05 (m, 2H), 2,07-2,25 (m, 3H), 3,26 (m, 1H), 3,46 (s, 3H), 4,17 (d, 1H, $J = 9,5$ Hz), 5,15 (s, 2H), 6,77 (d, 1H, $J = 8,0$ Hz), 7,10-7,23 (m, 2H), 7,34 (s, 1H), 7,58 (s, 1H).

10 I-163

p.f. = 175-178°C

15 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,28-1,50 (m, 4H), 1,78-2,00 (m, 4H), 2,22 (m, 1H), 2,96-3,15 (m, 2H), 6,67 (m, 1H), 6,79 (d, 1H, $J = 8,5$ Hz), 7,18 (m, 2H), 7,38 (s, 1H), 9,81 (s, 1H).

I-164

20 p.f. = 232-233°C

25 RMN- ^1H (CDCl_3) δ ppm = 0,97 (t, 3H, $J = 7,3$ Hz), 1,22-1,30 (m, 2H), 1,40 (s, 9H), 1,44-1,51 (m, 2H), 1,67-1,77 (m, 4H), 2,02-2,24 (m, 5H), 3,22 (m, 1H), 3,62 (d, 1H, $J = 9,6$ Hz), 4,25 (t, 2H, $J = 6,8$ Hz), 6,71 (d, 1H, $J = 8,4$ Hz), 7,01 (ancha s, 1H), 7,91 (dd, 1H, $J = 8,4, 3,3$ Hz), 8,08 (d, 1H, $J = 3,3$ Hz).

I-165

p.f. = 199-200°C

30 RMN- ^1H (CDCl_3) δ ppm = 0,96 (t, 3H, $J = 7,4$ Hz), 1,24-1,50 (m, 4H), 1,40 (s, 9H), 1,67-1,76 (m, 3H), 2,03-2,08 (m, 2H), 2,24-2,35 (m, 3H), 3,29 (m, 1H), 3,76 (d, 1H, $J = 9,1$ Hz), 3,91 (t, 2H, $J = 6,6$ Hz), 6,41 (dd, 1H, $J = 8,8, 2,5$ Hz), 6,55 (d, 1H, $J = 2,5$ Hz), 6,82 (d, 1H, $J = 8,8$ Hz), 7,43 (s, 1H), 8,95 (s, 1H).

35 I-166

p.f. = 215-218°C

40 RMN- ^1H ($\text{CDCl}_3 + \text{CD}_3\text{OD}$) δ ppm = 0,97 (t, 3H, $J = 7,4$ Hz), 1,24-1,40 (m, 4H), 1,39 (s, 9H), 1,42-1,50 (m, 2H), 1,54-1,72 (m, 2H), 1,76-1,82 (m, 2H), 1,91-2,00 (m, 2H), 2,06-2,22 (m, 3H), 3,24 (m, 1H), 4,00 (t, 2H, $J = 6,6$ Hz), 6,78 (d, 1H, $J = 8,8$ Hz), 6,98 (dd, 1H, $J = 8,8, 2,5$ Hz), 7,09 (d, 1H, $J = 8,8$ Hz).

45 I-167

p.f. = 212-213°C

50 RMN- ^1H (CDCl_3) δ ppm = 0,96 (t, 3H, $J = 7,5$ Hz), 1,26-1,34 (m, 2H), 1,40 (s, 9H), 1,45-1,50 (m, 2H), 1,68-1,77 (m, 4H), 2,03-2,08 (m, 2H), 2,17 (m, 1H), 2,26-2,29 (m, 2H), 3,29 (m, 1H), 3,60 (d, 1H, $J = 9,0$ Hz), 4,25 (t, 2H, $J = 6,8$ Hz), 6,71 (d, 1H, $J = 8,4$ Hz), 7,01 (ancha s, 1H), 7,91 (dd, 1H, $J = 8,4, 3,3$ Hz), 8,08 (d, 1H, $J = 3,3$ Hz).

I-168

55 p.f. = 230-232°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,35 (m, 2H), 1,40 (s, 9H), 1,63-1,77 (m, 2H), 2,03-2,08 (m, 2H), 2,15-2,29 (m, 3H), 3,31 (m, 1H), 3,63 (d, 1H, $J = 9,3$ Hz), 6,89 (d, 1H, $J = 9,4$ Hz), 7,10 (ancha d, 2H, $J = 7,4$ Hz), 7,12 (ancha s, 1H), 7,18 (t, 1H, $J = 7,4$ Hz), 7,36 (ancha t, 2H, $J = 7,4$ Hz), 8,09-8,15 (m, 2H).

I-169

p.f. = 159-160°C

65 RMN- ^1H (CDCl_3) δ ppm = 0,97 (t, 3H, $J = 7,3$), 1,20-1,35 (m, 2H), 1,40 (s, 9H), 1,37-1,49 (m, 2H), 1,61-1,78 (m, 4H), 2,05-2,08 (m, 2H), 2,23-2,26 (m, 2H), 2,36 (s, 3H), 2,97 (ancha s, 1H), 3,32 (m, 1H), 3,86 (ancha s, 1H), 4,30 (t, 2H, $J = 6,5$ Hz), 6,25 (s, 1H), 7,92 (ancha s, 1H).

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I-170

p.f. = 180-181°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,88-0,89 (m, 2H), 1,39 (s, 9H), 1,42-1,60 (m, 2H), 1,86-1,90 (m, 2H), 2,04-2,09 (m, 2H), 2,42 (s, 3H), 2,91 (m, 1H), 3,20 (m, 1H), 3,63 (d, 1H, $J = 9,2$ Hz), 6,38 (s, 1H), 7,15 (m, 2H), 7,28 (m, 1H), 7,45 (m, 2H), 7,84 (ancha s, 1H).

10 I-171

p.f. = 173-174°C

15 RMN- ^1H (CDCl_3) δ ppm = 0,98 (t, 3H, $J = 7,5$ Hz), 1,29-1,40 (m, 2H), 1,40 (s, 9H), 1,55 (m, 2H), 1,62-1,83 (m, 4H), 2,09-2,12 (m, 2H), 2,24-2,32 (m, 3H), 3,32 (m, 1H), 3,63 (d, 1H, $J = 9,5$ Hz), 3,99 (t, 2H, $J = 6,4$ Hz), 7,22 (dd, 1H, $J = 9,4$, 2,7 Hz), 7,66 (d, 1H, $J = 2,7$ Hz), 8,63 (d, 1H, $J = 9,4$ Hz), 10,17 (s, 1H).

I-172

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p.f. = 238-242°C

25 RMN- ^1H (CDCl_3) δ ppm = 0,96 (t, 3H, $J = 7,3$ Hz), 1,23-1,52 (m, 4H), 1,40 (s, 9H), 1,61-1,78 (m, 4H), 2,05-2,28 (m, 5H), 3,30 (m, 1H), 3,66 (d, 1H, $J = 9,4$ Hz), 3,84 (ancha s, 2H), 3,90 (t, 2H, $J = 6,4$ Hz), 6,32-6,35 (m, 2H), 6,96 (ancha s, 1H), 6,97 (d, 1H, $J = 9,4$ Hz).

I-173

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p.f. = 165-166°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,23-1,26 (m, 2H), 1,40 (s, 9H), 1,67-1,72 (m, 2H), 2,01-2,06 (m, 2H), 2,11-2,28 (m, 3H), 3,31 (m, 1H), 3,60 (s, 2H), 3,69 (s, 3H), 4,02 (ancha s, 1H), 7,01 (d, 1H, $J = 8,0$ Hz), 7,25 (t, 1H, $J = 8,0$ Hz), 7,43 (d, 1H, $J = 8,0$ Hz), 7,49 (ancha s, 1H), 7,51 (ancha s, 1H).

I-174

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p.f. = 264-265°C

45 RMN- ^1H ($\text{CDCl}_3 + \text{CD}_3\text{OD}$) δ ppm = 1,26-1,29 (m, 2H), 1,39 (s, 9H), 1,62-1,69 (m, 2H), 1,96-2,00 (m, 2H), 2,18-2,21 (m, 3H), 3,25 (m, 1H), 3,58 (s, 2H), 7,01 (d, 1H, $J = 7,5$ Hz), 7,26 (t, 1H, $J = 7,5$ Hz), 7,42 (ancha s, 1H), 7,50 (d, 1H, $J = 7,5$ Hz).

I-175

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p.f. = 90-94°C

55 RMN- ^1H (CDCl_3) δ ppm = 1,16-1,23 (m, 2H), 1,37 (s, 9H), 1,44-1,56 (m, 2H), 1,73-1,85 (m, 3H), 2,11-2,15 (m, 2H), 3,57 (t, 2H, $J = 6,4$ Hz), 3,21 (m, 1H), 3,58 (m, 2H), 3,84 (d, 1H, $J = 9,3$ Hz), 5,56 (ancha s, 1H), 7,01 (s, 1H), 7,11 (t, 1H, $J = 7,5$ Hz), 7,21 (t, 1H, $J = 7,5$ Hz), 7,38 (d, 1H, $J = 7,5$ Hz), 7,59 (d, 1H, $J = 7,5$ Hz), 8,24 (ancha s, 1H).

55 I-176

p.f. = 116-118°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,18-1,38 (m, 2H), 1,40 (s, 9H), 1,60-1,79 (m, 2H), 1,95-2,30 (m, 5H), 3,30 (m, 1H), 3,69 (m, 1H), 3,80 (s, 3H), 4,64 (s, 2H), 6,67 (d, 1H, $J = 8,0$ Hz), 7,00 (d, 1H, $J = 8,5$ Hz), 7,15-7,24 (m, 2H), 7,32 (ancha s, 1H).

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I-177

p.f. = 219-220°C

5 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,28-1,50 (m, 4H), 1,75-2,01 (m, 4H), 2,18-2,30 (m, 1H), 2,95-3,15 (m, 2H), 4,61 (s, 2H), 6,56 (m, 1H), 6,80 (d, 1H, $J = 8,5$ Hz), 7,16 (m, 2H), 7,28 (ancha s, 1H), 9,87 (ancha s, 1H).

I-178

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p.f. = 170-173°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,18-1,39 (m, 2H), 1,40 (s, 9H), 1,50-1,80 (m, 2H), 1,90-2,33 (m, 5H), 2,36 (s, 6H), 2,75 (t, 2H, $J = 5,5$ Hz), 3,30 (m, 1H), 3,70 (m, 1H), 4,08 (t, 2H, $J = 5,5$ Hz), 6,68 (d, 1H, $J = 8,0$ Hz), 6,94 (d, 1H, $J = 7,5$ Hz), 7,15-7,23 (m, 2H), 7,33 (ancha s, 1H).

I-179

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p.f. = 191-193°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,39 (m, 2H), 1,40 (s, 9H), 1,58-1,80 (m, 2H), 1,98-2,32 (m, 5H), 3,30 (m, 1H), 3,70 (d, 1H, $J = 9,5$ Hz), 4,77 (s, 2H), 6,73 (d, 1H, $J = 8,0$ Hz), 7,04 (d, 1H, $J = 8,0$ Hz), 7,20-7,31 (m, 2H), 7,48 (ancha s, 1H).

I-180

p.f. = 174-176°C

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RMN- ^1H (CDCl_3) δ ppm = 1,10-1,30 (m, 2H), 1,40 (s, 9H), 1,45-1,65 (m, 2H), 1,81-2,02 (m, 3H), 2,15-2,30 (m, 2H), 2,58 (t, 2H, $J = 6,5$ Hz), 3,25 (m, 1H), 3,37 (dt, 2H, $J = 5,5, 6,5$ Hz), 3,60 (d, 1H, $J = 9,5$ Hz), 3,71 (s, 2H), 5,73 (ancha s, 1H), 7,20-7,40 (m, 5H).

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I-181

p.f. = 176-178°C

40 RMN- ^1H (CDCl_3) δ ppm = 1,15-1,30 (m, 2H), 1,39 (s, 9H), 1,45-1,70 (m, 6H), 1,85-2,01 (m, 3H), 2,15-2,28 (m, 2H), 2,63 (t, 2H, $J = 7,0$ Hz), 3,25 (dt, 2H, $J = 6,0, 7,0$ Hz), 3,27 (m, 1H), 3,63 (m, 1H), 5,35 (ancha s, 1H), 7,17 (m, 3H), 7,29 (m, 2H).

I-182

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p.f. = 152-154°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,15-1,30 (m, 2H), 1,39 (s, 9H), 1,45-1,65 (m, 2H), 1,85-2,05 (m, 3H), 2,09-2,25 (m, 2H), 3,25 (m, 1H), 3,45 (dt, 2H, $J = 5,0, 5,0$ Hz), 3,55 (t, 2H, $J = 5,0$ Hz), 3,60 (m, 1H), 4,51 (s, 2H), 5,81 (ancha s, 1H), 7,29-7,40 (m, 5H).

I-183

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p.f. = 208-211°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,31 (m, 2H), 1,39 (s, 9H), 1,62-1,68 (m, 2H), 1,98-2,25 (m, 5H), 3,30 (m, 1H), 3,57 (d, 1H, $J = 9,2$ Hz), 4,59 (d, 2H, $J = 5,8$ Hz), 5,76 (ancha s, 1H), 7,37 (dd, 1H, $J = 8,4, 2,0$ Hz), 7,46-7,52 (m, 2H), 7,69 (ancha s, 1H), 7,78-7,83 (m, 3H).

I-184

p.f. = 180-182°C

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RMN- ^1H (CDCl_3) δ ppm = 1,22-1,37 (m, 2H), 1,40 (s, 9H), 1,60-1,69 (m, 2H), 2,05-2,09 (m, 2H), 2,21-2,27 (m, 3H), 3,45 (m, 1H), 3,64 (d, 1H, $J = 9,6$ Hz), 4,77 (d, 2H, $J = 4,9$ Hz), 7,43 (d, 1H, $J = 8,6$ Hz), 7,46 (ancha s, 1H), 7,61 (t, 1H, $J = 7,7$ Hz), 7,73 (t, 1H, $J = 7,7$ Hz), 7,87 (t, 1H, $J = 7,7$ Hz), 8,20 (t, 1H, $J = 7,7$ Hz), 8,24 (d, 1H, $J = 8,6$ Hz).

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I-185

p.f. = 260-261°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,32 (m, 2H), 1,39 (s, 9H), 1,60-1,70 (m, 2H), 1,97-2,01 (m, 2H), 2,11 (m, 1H), 2,21-2,24 (m, 2H), 3,30 (m, 1H), 3,61 (d, 1H, $J = 9,3$ Hz), 4,95 (d, 2H, $J = 6,0$ Hz), 5,85 (ancha s, 1H), 7,33 (d, 1H, $J = 4,8$ Hz), 7,62 (dd, 1H, $J = 8,4$, 6,9 Hz), 7,75 (dd, 1H, $J = 8,1$, 6,9 Hz), 8,00 (d, 1H, $J = 8,1$ Hz), 8,20 (d, 1H, $J = 8,4$ Hz), 8,42 (d, 1H, $J = 4,8$ Hz).

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I-186

p.f. = 231-233°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,23-1,40 (m, 2H), 1,40 (s, 9H), 1,62-1,76 (m, 2H), 2,04-2,10 (m, 2H), 2,22-2,32 (m, 3H), 3,30 (m, 1H), 3,95 (d, 1H, $J = 9,3$ Hz), 5,04 (d, 2H, $J = 4,1$ Hz), 7,61 (d, 1H, $J = 5,8$ Hz), 7,63 (ancha s, 1H), 7,65 (dd, 1H, $J = 8,2$, 6,9 Hz), 7,73 (dd, 1H, $J = 8,5$, 6,9 Hz), 7,86 (d, 1H, $J = 8,2$ Hz), 8,10 (d, 1H, $J = 8,5$ Hz), 8,42 (d, 1H, $J = 5,8$ Hz).

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I-187

p.f. = 184-187°C

25 RMN- ^1H (CDCl_3) δ ppm = 0,97 (t, 3H, $J = 7,3$ Hz), 1,18-1,30 (m, 2H), 1,39 (s, 9H), 1,42-1,65 (m, 4H), 1,70-1,80 (m, 2H), 1,94-2,08 (m, 3H), 2,18-2,26 (m, 2H), 3,29 (m, 1H), 3,61 (d, 1H, $J = 9,5$ Hz), 3,93 (t, 2H, $J = 6,4$ Hz), 4,39 (d, 2H, $J = 5,5$ Hz), 5,67 (ancha s, 1H), 6,79-6,83 (m, 3H), 7,23 (t, 1H, $J = 7,6$ Hz).

30 I-188

p.f. = 224-226°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,16-1,31 (m, 2H), 1,38 (s, 9H), 1,55-1,70 (m, 2H), 1,92-2,07 (m, 3H), 2,17-2,23 (m, 2H), 3,21 (m, 1H), 3,81 (s, 3H), 3,83 (s, 6H), 4,05 (d, 1H, $J = 9,8$ Hz), 4,34 (d, 2H, $J = 5,8$ Hz), 5,96 (ancha s, 1H), 6,47 (s, 2H).

I-189

40

p.f. = 217-218°C

45 RMN- ^1H (CDCl_3) δ ppm = 1,15-1,30 (m, 2H), 1,37 (s, 9H), 1,52-1,66 (m, 2H), 1,90-2,06 (m, 3H), 2,13-2,20 (m, 2H), 2,93 (s, 6H), 3,24 (m, 1H), 3,94 (d, 1H, $J = 9,5$ Hz), 4,30 (d, 2H, $J = 5,5$ Hz), 5,73 (ancha s, 1H), 6,69 (d, 2H, $J = 8,9$ Hz), 7,12 (d, 2H, $J = 8,9$ Hz).

I-190

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p.f. = sólido amorfo

55 RMN- ^1H (CDCl_3) δ ppm = 1,17-1,32 (m, 2H), 1,39 (s, 9H), 1,54-1,72 (m, 2H), 1,96-2,13 (m, 3H), 2,18-2,27 (m, 2H), 3,30 (m, 1H), 3,63 (d, 1H, $J = 9,2$ Hz), 4,51 (d, 2H, $J = 5,8$ Hz), 5,82 (ancha s, 1H), 7,40 (d, 2H, $J = 8,5$ Hz), 8,02 (d, 2H, $J = 8,5$ Hz), 8,64 (s, 1H).

I-191

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p.f. = 126-128°C

65 RMN- ^1H (CDCl_3) δ ppm = 0,97 (t, 3H, $J = 7,4$ Hz), 1,10-1,28 (m, 2H), 1,36 (s, 9H), 1,42-1,86 (m, 9H), 2,06-2,18 (m, 2H), 3,22 (m, 1H), 3,95 (t, 2H, $J = 4,5$ Hz), 4,16 (ancha s, 1H), 4,85 (s, 2H), 6,82-6,95 (m, 3H), 7,26 (t, 1H, $J = 7,8$ Hz), 8,54 (ancha s, 1H).

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I-192

p.f. = 178-181°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,96 (t, 3H, J = 7,3 Hz), 1,18-1,52 (m, 4H), 1,39 (s, 9H), 1,58-1,76 (m, 4H), 1,92-2,00 (m, 2H), 2,02-2,29 (m, 3H), 3,28 (m, 1H), 3,78 (d, 1H, J = 9,5 Hz), 3,89 (t, 2H, J = 6,6 Hz), 6,00 (ancha s, 1H), 6,78 (s, 4H), 7,35 (ancha s, 1H).

10 I-193

p.f. = 187-188°C

15 RMN- ^1H ($\text{CDCl}_3 + \text{CD}_3\text{OD}$) δ ppm = 1,21-1,40 (m, 2H), 1,38 (s, 9H), 1,52-1,69 (m, 2H), 1,90-2,00 (m, 2H), 2,02-2,20 (m, 3H), 3,22 (m, 1H), 3,75 (s, 3H), 6,79 (s, 4H).

I-194

20 p.f. = 251-253°C

25 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,24-1,50 (m, 4H), 1,72-1,83 (m, 2H), 1,91-1,99 (m, 2H), 2,16 (m, 1H), 3,02 (m, 1H), 3,82 (s, 3H), 6,79 (d, 1H, J = 8,2 Hz), 7,01 (d, 2H, J = 8,8 Hz), 7,85 (d, 2H, J = 8,8 Hz), 9,72 (ancha s, 1H), 8,64 (ancha s, 1H).

I-195

30 p.f. = 183-185°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,37 (m, 2H), 1,40 (s, 9H), 1,58-1,75 (m, 2H), 2,05-2,10 (m, 2H), 2,20-2,30 (m, 3H), 3,32 (m, 1H), 3,70 (s, 2H), 3,73 (s, 3H), 6,79 (s, 1H), 8,83 (ancha s, 1H).

35 I-196

p.f. = 185-187°C

40 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,39 (m, 2H), 1,40 (s, 9H), 1,44 (t, 6H, J = 7,0 Hz), 1,60-1,80 (m, 2H), 1,95-2,35 (m, 5H), 3,30 (m, 1H), 3,62 (d, 1H, J = 8,9 Hz), 4,06 (q, 2H, J = 7,0 Hz), 4,09 (q, 2H, J = 7,0 Hz), 6,08 (s, 1H), 7,02 (s, 1H), 7,36 (s, 1H).

45 I-197

p.f. = 211-213°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,40 (m, 2H), 1,41 (s, 9H), 1,60-1,80 (m, 2H), 2,00-2,36 (m, 5H), 2,61 (s, 3H), 3,32 (m, 1H), 3,64 (d, 1H, J = 9,2 Hz), 7,28 (s, 1H), 7,43 (t, 1H, J = 7,5 Hz), 7,69 (d, 1H, J = 7,5 Hz), 7,85 (d, 1H, J = 7,5 Hz), 8,02 (s, 1H).

I-198

55 p.f. = 268-269°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,39 (m, 2H), 1,40 (s, 9H), 1,42-2,32 (m, 7H), 2,90-3,10 (m, 4H), 3,30 (m, 1H), 3,68 (d, 1H, J = 8,8 Hz), 6,59 (s, 1H), 7,18 (d, 1H, J = 8,7 Hz), 7,59 (d, 1H, J = 8,7 Hz), 7,77 (ancha s, 1H).

I-199 p.f. = 221-224°C

I-200 p.f. = 237-240°C

65 I-201 p.f. = 87-90°C

I-202 p.f. = 222-223°C

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I-203 p.f. = 255-257°C

I-204 p.f. = 234-236°C

5 I-205 p.f. = 208-210°C

I-206 p.f. = 217-218°C

I-207 p.f. = 275-279°C

10 I-208 p.f. = 248-250°C

I-209 p.f. = 256-258°C

15 I-210 p.f. = 270-271°C

I-211 p.f. = 219-220°C

I-212 p.f. = 260-261°C

20 I-213 p.f. = >300°C

I-214 p.f. = 206-207°C

25 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,4 Hz), 1,30-1,42 (m, 2H), 1,49 (d, 6H, J = 6,9 Hz), 1,53-1,65 (m, 2H), 2,61 (t, 2H, J = 7,7 Hz), 4,15 (sept, 1H, J = 6,9 Hz), 7,04 (d, 1H, J = 8,2 Hz), 7,20 (d, 2H, J = 8,2 Hz), 7,51 (d, 2H, J = 8,2 Hz), 7,89 (d, 1H, J = 8,8 Hz), 8,18 (s, 1H), 10,55 (s, 1H).

30 I-215

35 RMN- ^1H (CDCl_3) δ ppm = 0,93 (t, 3H, J = 7,3 Hz), 1,30-1,41 (m, 2H), 1,52-1,63 (m, 2H), 1,95 (s, 6H), 2,61 (t, 2H, J = 7,8 Hz), 6,99 (ancha s, 1H), 7,20 (d, 2H, J = 8,5 Hz), 7,65 (d, 2H, J = 8,5 Hz), 7,93 (dd, 1H, J = 8,5, 2,5 Hz), 8,28 (d, 1H, J = 8,5 Hz), 8,55 (d, 1H, J = 2,5 Hz), 9,76 (ancha s, 1H).

Ia-1

40 p.f. = 221-224°C

45 RMN- ^1H (CDCl_3) δ ppm = 1,19-1,38 (m, 2H), 1,40 (s, 9H), 1,62-1,77 (m, 2H), 2,00-2,31 (m, 5H), 3,18 (t, 4H, J = 4,8 Hz), 3,21-3,38 (m, 1H), 3,85 (t, 4H, J = 4,8 Hz), 6,64-6,32 (m, 2H), 7,11 (s, 1H), 7,20 (t, 1H, J = 7,8 Hz), 7,45 (s, 1H).

Ia-3

p.f. = 87-90°C

50 RMN- ^1H (CDCl_3) δ ppm = 1,25 (d, 6H, J = 6,3 Hz), 1,37 (d, 6H, J = 6,9 Hz), 1,59-1,70 (m, 2H), 1,76-1,88 (m, 2H), 2,32-2,42 (m, 4H), 3,11-3,23 (m, 3H), 3,39 (d, 2H, J = 10,8 Hz), 3,74-3,86 (m, 2H), 4,34 (t, 1H, J = 9,0 Hz), 6,86 (d, 2H, J = 9,0 Hz), 7,30 (s, 1H), 7,40 (d, 2H, J = 9,0 Hz).

55 Ia-4

p.f. = 233-234°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,25 (d, 6H, J = 6,3 Hz), 1,40 (s, 9H), 1,26-1,37 (m, 2H), 1,62-1,78 (m, 2H), 2,00-2,22 (m, 5H), 2,42 (t, 2H, J = 11,7 Hz), 3,20-3,40 (m, 1H), 3,46 (d, 2H, J = 10,5 Hz), 3,67 (d, 1H, J = 9,3 Hz), 3,72-3,84 (m, 2H), 6,62-6,76 (m, 2H), 7,10 (s, 1H), 7,18 (t, 1H, J = 7,8 Hz), 7,42 (s, 1H).

65

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Ia-5

p.f. = 125-126°C

- 5 RMN- ^1H (CDCl_3) δ ppm = 1,25 (d, 6H, J = 6,3 Hz); 1,40 (s, 9H), 1,59-1,70 (m, 2H), 1,77-1,84 (m, 2H), 2,30-2,46 (m, 4H), 3,24 (q, 2H, J = 6,6 Hz), 3,38 (d, 2H, J = 11,7 Hz), 3,74-3,88 (m, 2H), 4,08 (t, 1H, J = 5,7 Hz), 6,87 (d, 2H, J = 8,7 Hz), 7,30 (s, 1H), 7,41 (d, 2H, J = 8,7 Hz).

10 Ia-6

p.f. = 229-230°C

- 15 RMN- ^1H (CDCl_3) δ ppm = 1,25 (d, 6H, J = 6,3 Hz), 1,26-1,34 (m, 2H), 1,39 (d, 6H, J = 6,9 Hz), 1,61-1,77 (m, 2H), 1,98-1,26 (m, 5H), 2,32-2,46 (m, 2H), 3,15 (quintet, 1H, J = 6,6 Hz), 3,22-3,35 (m, 1H), 3,39 (d, 2H, J = 11,4 Hz), 3,74-3,92 (m, 2H), 3,88 (d, 1H, J = 8,4 Hz), 6,96-6,71 (m, 2H), 7,05 (ancha s, 1H), 7,39 (d, 2H, J = 9,3 Hz).

20 Ia-7

p.f. = 253-254°C

- 25 RMN- ^1H (DMSO) δ ppm = 1,24-1,60 (m, 4H), 1,27 (s, 9H), 1,77-2,07 (m, 4H), 2,16-2,34 (m, 1H), 2,97-3,15 (m, 1H), 6,78 (d, 1H, J = 7,2 Hz), 7,01 (t, 1H, J = 6,0 Hz), 7,27 (t, 2H, J = 6,6 Hz), 7,58 (d, 2H, J = 7,5 Hz), 9,78 (s, 1H).

Ia-8

p.f. = 257-258°C

- 30 RMN- ^1H (DMSO) δ ppm = 1,22-1,54 (m, 4H), 1,27 (s, 9H), 1,77-1,88 (m, 2H), 1,88-2,00 (m, 2H), 2,16-2,34 (m, 1H), 2,23 (s, 3H), 2,92-3,14 (m, 1H), 6,77 (d, 1H, J = 8,4 Hz), 7,07 (d, 2H, J = 8,4 Hz), 7,46 (d, 2H, J = 8,1 Hz), 9,68 (s, 1H).

35 Ia-9

p.f. = 231-232°C

- 40 RMN- ^1H (CDCl_3) δ ppm = 1,21 (t, 3H, J = 7,5 Hz), 1,22-1,38 (m, 2H), 1,40 (s, 9H), 1,62-1,78 (m, 2H), 1,98-2,31 (m, 5H), 2,61 (q, 2H, J = 7,5 Hz), 3,24-3,38 (m, 1H), 3,70 (d, 1H, J = 9,9 Hz), 7,11 (s, 1H), 7,14 (d, 2H, J = 8,7 Hz), 7,40 (d, 2H, J = 8,7 Hz).

45 Ia-10

p.f. = 233-234°C

- 50 RMN- ^1H (CDCl_3) δ ppm = 0,96 (t, 3H, J = 7,2 Hz), 1,20-1,37 (m, 2H), 1,40 (s, 9H), 1,56-1,78 (m, 4H), 1,98-2,32 (m, 5H), 2,54 (t, 2H, J = 7,2 Hz), 3,23-3,39 (m, 1H), 3,66 (d, 1H, J = 9,6 Hz), 7,08 (s, 1H), 7,12 (d, 2H, J = 8,4 Hz), 7,39 (d, 2H, J = 8,4 Hz).

55 Ia-11

p.f. = 243-244°C

- 60 RMN- ^1H (CDCl_3) δ ppm = 1,22 (d, 6H, J = 6,9), 1,22-1,77 (m, 4H), 1,40 (s, 9H), 2,01-2,30 (m, 5H), 2,83-2,92 (m, 1H), 3,24-3,40 (m, 1H), 3,66-3,69 (m, 1H), 7,09 (s, 1H), 7,17 (d, 2H, J = 8,4 Hz), 7,41 (d, 2H, J = 8,1 Hz).

Ia-12

p.f. = 246-247°C

- 65 RMN- ^1H (CDCl_3) δ ppm = 0,80 (t, 3H, J = 7,5), 1,20 (d, 3H, J = 7,2), 1,26-1,77 (m, 6H), 1,40 (s, 9H), 2,01-2,27 (m, 5H), 2,51-2,60 (m, 1H), 3,20-3,38 (m, 1H), 3,64-3,69 (m, 1H), 7,08 (s, 1H), 7,12 (d, 2H, J = 8,4 Hz), 7,41 (d, 2H, J = 8,4 Hz).

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Ia-13

p.f. = 278-279°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,52 (m, 4H), 1,29 (s, 9H), 1,40 (s, 9H), 1,61-1,77 (m, 2H), 2,02-2,30 (m, 5H), 3,20-3,38 (m, 1H), 3,66-3,69 (m, 1H), 7,10 (s, 1H), 7,33 (d, 2H, J = 9,0 Hz), 7,42 (d, 2H, J = 8,7 Hz).

Ia-14

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p.f. = 263-264°C

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RMN- ^1H (DMSO) δ ppm = 1,24-1,51 (m, 4H), 1,27 (s, 9H), 1,82-1,99 (m, 4H), 2,19-2,28 (m, 1H), 2,98-3,12 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,33 (d, 2H, J = 8,7 Hz), 7,61 (d, 2H, J = 9,0 Hz), 9,94 (s, 1H).

Ia-15

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p.f. = 209-210°C

RMN- ^1H (CDCl_3) δ ppm = 1,25 (d, 6H, J = 6,3 Hz), 1,40 (s, 9H), 1,70-1,98 (m, 8H), 2,19-2,38 (m, 3H), 3,39 (d, 2H, J = 11,7 Hz), 3,58-3,92 (m, 3H), 4,12-4,26 (m, 1H), 6,82-6,96 (m, 2H), 7,10 (ancha, 1H), 7,41 (d, 2H, J = 8,1 Hz).

Ia-16

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p.f. = 238-240°C

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RMN- ^1H (DMSO) δ ppm = 1,22-1,52 (m, 4H), 1,27 (s, 9H), 1,81-1,84 (m, 2H), 1,93-1,97 (m, 2H), 2,16-2,23 (m, 1H), 2,95-3,12 (m, 1H), 3,70 (s, 3H), 6,77 (d, 1H, J = 8,4 Hz), 6,85 (d, 2H, J = 9,0 Hz), 7,48 (d, 2H, J = 9,3 Hz), 9,64 (s, 1H).

Ia-17

35

p.f. = 245-246°C

40

RMN- ^1H (DMSO) δ ppm = 1,22-1,52 (m, 4H), 1,27 (s, 9H), 1,83-1,87 (m, 2H), 1,94-1,99 (m, 2H), 2,20-2,28 (m, 1H), 2,98-3,12 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,28 (d, 2H, J = 8,7 Hz), 7,69 (d, 2H, J = 9,0 Hz), 9,64 (s, 1H).

Ia-18

45

p.f. = 240-241°C

RMN- ^1H (CDCl_3) δ ppm = 1,22-1,78 (m, 4H), 1,40 (s, 9H), 2,05-2,33 (m, 5H), 3,22-3,44 (m, 1H), 3,64-3,67 (m, 1H), 6,61 (s, 1H), 6,69-6,77 (m, 2H).

Ia-19

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p.f. = 240-241°C

55

RMN- ^1H (CDCl_3) δ ppm = 1,24-1,77 (m, 4H), 1,40 (s, 9H), 2,05-2,30 (m, 5H), 3,22-3,38 (m, 1H), 3,70-3,74 (m, 1H), 7,00-7,15 (m, 3H), 7,36 (s, 1H), 8,29-8,34 (m, 1H).

Ia-20

60

p.f. = 239-240°C

RMN- ^1H (CDCl_3) δ ppm = 1,24-1,78 (m, 4H), 1,40 (s, 9H), 2,02-2,30 (m, 5H), 3,22-3,40 (m, 1H), 3,63-3,66 (m, 1H), 6,89-6,84 (m, 1H), 7,10-7,17 (m, 2H), 7,22-7,34 (m, 1H), 7,48-7,51 (m, 1H).

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Ia-21

p.f. = 259-260°C

5 RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,21 (d, 6H, J = 6,0 Hz), 1,22-1,44 (m, 2H), 1,40 (s, 9H), 1,60-1,78 (m, 2H), 1,87-2,03 (m, 2H), 2,08-2,29 (m, 3H), 2,39 (t, 2H, J = 10,2 Hz), 3,14-3,32 (m, 1H), 3,19 (d, 2H, J = 11,4 Hz), 3,77-3,93 (m, 2H), 5,33 (d, 1H, J = 9,0 Hz), 6,84 (dd, 1H, JFH, HH = 8,1, 8,1 Hz), 7,20 (d, 1H, J = 7,8 Hz), 7,49 (d, 1H, JFH = 14,7 Hz), 8,86 (s, 1H).

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Ia-22

p.f. = 234-235°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,20 (d, 6H, J = 5,7 Hz), 1,22-1,44 (m, 2H), 1,38 (s, 9H), 1,54-1,76 (m, 2H), 1,94-2,32 (m, 5H), 2,27 (s, 3H), 2,39 (t, 2H, J = 10,8 Hz), 2,87 (d, 2H, J = 11,4 Hz), 3,20-3,40 (m, 1H), 3,76-3,92 (m, 2H), 3,91 (d, 1H, J = 9,3 Hz), 6,93 (d, 1H, J = 8,1 Hz), 7,21 (ancha s, 1H), 7,27 (ancha s, 1H), 7,36 (ancha s, 1H).

20 Ia-23

p.f. = 195-196°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,44 (m, 4H), 1,41 (s, 9H), 1,59-1,76 (m, 2H), 2,03-2,14 (m, 2H), 2,15-2,33 (m, 3H), 3,20-3,40 (m, 1H), 3,64 (s, 1H, J = 9,0 Hz), 7,19-7,24 (m, 1H), 7,44 (ancha s, 1H), 7,52-7,63 (m, 2H), 8,17 (d, 1H, J = 8,7 Hz).

Ia-24

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p.f. = 209-210°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,39 (m, 2H), 1,56 (s, 9H), 1,61-1,78 (m, 2H), 2,00-2,12 (m, 2H), 2,17-2,33 (m, 3H), 3,24-3,39 (m, 1H), 3,67 (d, 1H, J = 9,6 Hz), 6,90-7,01 (m, 1H), 7,21 (s, 1H), 7,95-8,06 (m, 1H).

Ia-25

p.f. = 278-281°C

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RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,10 (d, 6H, J = 6,3 Hz), 1,27 (s, 9H), 1,28-1,55 (m, 4H), 1,78-2,00 (m, 4H), 2,11-2,26 (m, 1H), 2,31 (t, 2H, J = 11,1 Hz), 3,00-3,10 (m, 1H), 3,08 (d, 1H, J = 10,8 Hz), 3,67-3,80 (m, 2H), 6,78 (d, 1H, J = 8,7 Hz), 7,08 (d, 1H, J = 9,0 Hz), 7,41 (dd, 1H, J = 2,4, 8,7 Hz), 7,78 (d, 1H, J = 8,7 Hz), 9,85 (s, 1H).

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Ia-26

p.f. = 253-255°C

50 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,13 (d, 6H, J = 6,0 Hz), 1,27 (s, 9H), 1,28-1,52 (m, 4H), 1,78-2,00 (m, 4H), 2,21 (t, 2H, J = 11,1 Hz), 2,26-2,36 (m, 1H), 2,96-3,10 (m, 1H), 3,56 (d, 1H, J = 12,3 Hz), 3,60-3,72 (m, 2H), 6,66-6,84 (m, 4H), 7,47 (t, 1H, J = 9,3 Hz), 9,28 (s, 1H).

55 Ia-27

p.f. = 223-226°C

60 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,09 (d, 6H, J = 6,3 Hz), 1,27 (s, 9H), 1,28-1,54 (m, 4H), 1,77-2,01 (m, 4H), 2,32 (t, 2H, J = 11,1 Hz), 2,32-2,42 (m, 1H), 2,90 (d, 1H, J = 11,4 Hz), 2,96-3,12 (m, 1H), 3,76-3,92 (m, 2H), 6,78-6,98 (m, 3H), 7,68 (dd, 1H, J = 3,3, 8,7 Hz), 8,84 (s, 1H).

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Ia-28

p.f. = 237-238°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,44 (m, 2H), 1,25 (d, 6H, J = 6,3 Hz), 1,40 (s, 9H), 1,61-1,79 (m, 2H), 2,05-2,32 (m, 5H), 2,21 (s, 3H), 2,38 (t, 2H, J = 10,2 Hz), 3,22-3,42 (m, 1H), 3,40 (d, 2H, J = 11,1 Hz), 3,65 (d, 1H, J = 9,3 Hz), 3,72-3,90 (m, 2H), 6,70-6,78 (m, 2H), 6,81 (ancha s, 1H), 7,50 (d, 1H, J = 9,6 Hz).

10 Ia-29

p.f. = 208-209°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,22 (d, 6H, J = 6,0 Hz), 1,23-1,40 (m, 2H), 1,40 (s, 9H), 1,60-1,78 (m, 2H), 2,00-2,16 (m, 2H), 2,14-2,33 (m, 3H), 2,45 (t, 2H, J = 11,1 Hz), 3,21 (d, 2H, J = 10,8 Hz), 3,24-3,38 (m, 1H), 3,63 (d, 1H, J = 9,3 Hz), 3,80-3,94 (m, 2H), 5,33 (d, 1H, J = 9,0 Hz), 6,66 (dd, 1H, JFH, HH = 6,6, 6,6 Hz), 7,16 (ancha s, 1H), 7,89 (dd, 1H, JFH, HH = 9,0, 9,0 Hz).

20 Ia-30

p.f. = 284-287°C

25 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,08 (d, 6H, J = 6,0 Hz), 1,26 (s, 9H), 1,28-1,53 (m, 4H), 1,82-2,22 (m, 4H), 2,25-2,39 (m, 1H), 2,78 (t, 2H, J = 10,5 Hz), 2,97-3,14 (m, 1H), 3,18 (d, 2H, J = 11,4 Hz), 3,65-3,76 (m, 2H), 6,79 (d, 1H, J = 8,7 Hz), 9,75 (s, 1H).

Ia-31

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p.f. = 200-201°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,40 (m, 2H), 1,40 (s, 9H), 1,62-1,76 (m, 2H), 2,04-2,32 (m, 5H), 3,22-3,40 (m, 1H), 3,62-3,66 (m, 1H), 7,22-7,24 (m, 1H), 7,38-7,38 (m, 1H), 7,60 (s, 1H), 8,33-8,36 (m, 1H).

Ia-32

p.f. = 260-261°C

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RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,25-1,42 (m, 2H), 1,38 (s, 9H), 1,64 (q, 2H, J = 13,5 Hz), 1,95 (d, 2H, J = 12,3 Hz), 2,16 (d, 2H, J = 10,5 Hz), 2,18-2,32 (m, 1H), 3,14-3,30 (m, 1H), 5,53 (d, 1H, J = 9,0 Hz), 7,31 (d, 1H, J = 8,7 Hz), 7,46 (dd, 1H, J = 2,4, 8,7 Hz), 7,90 (d, 1H, J = 2,1 Hz), 9,35 (s, 1H).

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Ia-33

p.f. = 227°C

50 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,30-1,56 (m, 4H), 1,78-2,01 (m, 2H), 2,12-2,36 (m, 2H), 2,96-3,13 (m, 1H), 3,70 (s, 3H), 3,71 (s, 3H), 6,77 (d, 1H, J = 8,7 Hz), 6,85 (d, 1H, J = 8,7 Hz), 7,06 (dd, 1H, J = 2,4, 8,7 Hz), 7,33 (d, 1H, J = 2,4 Hz), 9,65 (s, 1H).

55 Ia-35

p.f. = 214-216°C

60 RMN- ^1H (CDCl_3) δ ppm = 1,23-1,38 (m, 2H), 1,40 (s, 9H), 1,6a-1,76 (m, 2H), 2,00-2,12 (m, 2H), 2,20-2,32 (m, 3H), 3,24-3,39 (m, 1H), 3,68 (d, 1H, J = 9,0 Hz), 6,77 (d, 1H, J = 8,7 Hz), 7,00 (dd, 1H, J = 2,4, 8,7 Hz), 7,77 (s, 1H), 8,45 (d, 1H, J = 2,4 Hz).

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Ia-36

p.f. = 241-242°C

5 RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,25-1,42 (m, 2H), 1,37 (s, 9H), 1,62 (q, 2H, $J = 11,7$ Hz), 1,93 (d, 2H, $J = 12,0$ Hz), 2,12 (d, 2H, $J = 10,8$ Hz), 2,16-2,30 (m, 1H), 3,12-3,28 (m, 1H), 3,84 (s, 3H), 6,07 (d, 1H, $J = 8,4$ Hz), 6,89 (dd, 1H, JFH, $\text{HH} = 9,3, 9,3$ Hz), 7,24 (d, 1H, $J = 8,7$ Hz), 7,55 (d, 1H, JFH = 13,5 Hz), 9,32 (s, 1H).

10 Ia-37

p.f. = 248-249°C

15 RMN- ^1H (CDCl_3) δ ppm = 0,60-0,73 (m, 1H), 0,91 (d, 6H, $J = 6,6$), 1,12-1,40 (m, 2H), 1,40 (s, 9H), 1,54-1,88 (m, 5H), 1,98-2,29 (m, 7H), 3,22-3,37 (m, 1H), 3,51-3,54 (m, 2H), 3,72 (d, 1H, $J = 9,6$), 6,88 (d, 1H, $J = 8,7$), 7,06 (s, 1H), 7,35 (d, 1H, $J = 9,0$).

Ia-38

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p.f. = 237-238°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,01 (d, 6H, $J = 6,6$), 1,20-1,40 (m, 2H), 1,40 (s, 9H), 1,60-1,74 (m, 4H), 1,99-2,28 (m, 7H), 2,69-2,82 (m, 2H), 3,02-3,14 (m, 2H), 3,20-3,38 (m, 1H), 3,80-3,90 (m, 1H), 6,83-6,86 (m, 2H), 7,14 (s, 1H), 7,34 (d, 1H, $J = 8,4$).

Ia-39

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p.f. = 234-235°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,36 (m, 2H), 1,40 (s, 9H), 1,60-1,77 (m, 2H), 1,90-2,32 (m, 5H), 3,21-3,39 (m, 1H), 3,65 (d, 1H, $J = 9,6$ Hz), 6,87 (d, 1H, $J = 8,7$ Hz), 7,04 (s, 1H), 7,37 (dd, 1H, $J = 2,7, 8,7$ Hz), 7,56 (d, 1H, $J = 2,7$ Hz).

Ia-40

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p.f. = 257-258°C

45 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,14 (d, 6H, $J = 6,0$ Hz), 1,27 (s, 9H), 1,28-1,53 (m, 4H), 1,78-2,00 (m, 4H), 2,13-2,256 (m, 1H), 2,30 (t, 2H, $J = 11,7$ Hz), 2,97-3,12 (m, 1H), 3,53-3,67 (m, 2H), 4,01 (d, 1H, $J = 12,3$ Hz), 6,80 (dd, 1H, $J = 3,0, 9,0$ Hz), 7,79 (d, 1H, $J = 9,0$ Hz), 8,27 (s, 1H), 9,66 (s, 1H).

Ia-41

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p.f. = 245-246°C

55 RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,25-1,42 (m, 2H), 1,37 (s, 9H), 1,62 (q, 2H, $J = 12,6$ Hz), 1,94 (d, 2H, $J = 11,1$ Hz), 2,13 (d, 2H, $J = 11,1$ Hz), 2,18-2,35 (m, 1H), 3,11-3,29 (m, 1H), 6,07 (d, 1H, $J = 8,1$ Hz), 6,95-7,06 (m, 1H), 7,14-7,27 (m, 1H), 7,44 (d, 1H, $J = 7,2$ Hz), 7,79 (s, 1H), 9,48 (s, 1H).

55 Ia-43

p.f. = 294-295°C

60 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,26 (s, 9H), 1,28-1,53 (m, 4H), 1,76-1,87 (m, 2H), 1,89-2,00 (m, 2H), 2,13-2,25 (m, 1H), 2,96-3,10 (m, 5H), 3,52-3,60 (m, 4H), 6,78 (d, 1H, $J = 9,0$ Hz), 6,88 (d, 2H, $J = 9,0$ Hz), 7,44 (d, 2H, $J = 9,0$ Hz), 9,59 (s, 1H).

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Ia-44

p.f. = 250-252°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,13 (d, 6H, J = 6,3 Hz), 1,21-1,38 (m, 2H), 1,41 (s, 9H), 1,63-1,80 (m, 2H), 1,93 (t, 2H, J = 10,8 Hz), 2,00-2,10 (m, 2H), 2,16-2,32 (m, 3H), 3,24-3,39 (m, 1H), 3,54 (d, 2H, J = 10,2 Hz), 3,64-3,78 (m, 3H), 7,47 (s, 1H), 7,69 (d, 2H, J = 9,0 Hz), 7,73 (d, 2H, J = 9,0 Hz).

10 Ia-45

p.f. = 193°C

15 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,10 (t, 6H, J = 7,2 Hz), 1,26 (s, 9H), 1,28-1,52 (m, 4H), 1,75-1,86 (m, 2H), 1,89-2,01 (m, 2H), 2,10-2,22 (m, 1H), 2,96-3,10 (m, 1H), 3,30-3,52 (m, 12H), 6,60 (d, 2H, J = 9,0 Hz), 6,80 (d, 1H, J = 9,0 Hz), 7,33 (d, 2H, J = 9,0 Hz), 9,46 (s, 1H).

Ia-46

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p.f. = >300°C

25 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,28 (s, 9H), 1,28-1,58 (m, 4H), 1,83-2,04 (m, 4H), 2,23-2,36 (m, 1H), 2,46 (s, 3H), 3,00-3,14 (m, 1H), 6,79 (d, 1H, J = 8,7 Hz), 7,34 (d, 1H, J = 8,7 Hz), 7,78 (d, 2H, J = 8,7 Hz), 7,89 (d, 1H, J = 8,4 Hz), 7,91 (s, 1H), 8,00 (d, 2H, J = 8,7 Hz), 10,13 (s, 1H).

Ia-47

30 p.f. = 236-237°C

35 RMN- ^1H (CDCl_3) δ ppm = 0,97 (d, 6H, J = 6,6 Hz), 1,01 (d, 6H, J = 6,6 Hz), 1,20-1,37 (m, 2H), 1,40 (s, 9H), 1,60-1,84 (m, 3H), 1,97-2,31 (m, 5H), 2,50 (t, 1H, J = 10,8 Hz), 2,78 (dt, 1H, J = 3,3, 11,4 Hz), 3,25-3,38 (m, 1H), 3,45 (d, 1H, J = 11,4 Hz), 3,75 (dt, 1H, J = 2,4, 11,4 Hz), 4,02 (dt, 1H, J = 2,4, 11,4 Hz), 6,88 (d, 2H, J = 9,0 Hz), 7,05 (s, 1H), 7,39 (d, 2H, J = 9,0 Hz).

Ia-48

40 p.f. = 228-229°C

45 RMN- ^1H (CDCl_3) δ ppm = 0,88 (t, 6H, J = 7,2 Hz), 1,19-1,45 (m, 4H), 1,40 (s, 9H), 1,45-1,76 (m, 4H), 1,76-1,92 (m, 1H), 1,96-2,30 (m, 5H), 2,66-3,20 (m, 3H), 3,20-3,40 (m, 1H), 3,78 (d, 1H, J = 9,3 Hz), 3,82 (s, 1H), 6,62-6,98 (m, 2H), 7,09 (ancha s, 1H), 7,37 (d, 2H, J = 7,8 Hz).

Ia-49

p.f. = 262-263°C

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55 RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,21 (d, 6H, J = 5,7 Hz), 1,26-1,34 (m, 2H), 1,37 (d, 6H, J = 5,4 Hz), 1,52-1,76 (m, 2H), 1,85-2,03 (m, 2H), 2,03-2,30 (m, 3H), 2,30-2,53 (m, 2H), 3,02-3,33 (m, 4H), 3,75-3,98 (m, 2H), 5,70 (ancha s, 1H), 6,73-6,98 (m, 1H), 7,14-7,25 (m, 1H), 7,52 (d, 1H, JFH = 13,5 Hz), 8,86 (ancha s, 1H).

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Ia-50

p.f. = 232-233°C

60 ^1H -NMR (CDCl_3) δ ppm = 1,21 (d, 6H, J = 6,3 Hz), 1,22-1,37 (m, 2H), 1,38 (d, 6H, J = 6,9 Hz), 1,68 (q, 2H, J = 12,6 Hz), 1,98-2,26 (m, 5H), 2,29 (s, 3H), 2,41 (t, 2H, J = 10,2 Hz), 2,88 (d, 2H, J = 11,1 Hz), 3,15 (septet, 1H, J = 6,6 Hz), 3,21-3,37 (m, 1H), 3,77-3,92 (m, 2H), 3,87 (d, 1H, J = 7,8 Hz), 6,88-7,06 (m, 3H), 7,35 (s, 1H).

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Ia-51

p.f. = 211-212°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,20-1,42 (m, 2H), 1,26 (d, 6H, J = 6,3 Hz), 1,38 (d, 6H, J = 6,9 Hz), 1,62-1,78 (m, 2H), 1,99-2,28 (m, 5H), 2,49 (dd, 2H, J = 10,5, 10,5 Hz), 3,17 (quint, 1H, J = 6,9 Hz), 3,20-3,38 (m, 1H), 3,66-3,99 (m, 2H), 3,90-4,01 (m, 3H), 6,62 (d, 1H, J = 9,0 Hz), 7,06 (s, 1H), 7,90 (dd, 1H, J = 2,4, 9,0 Hz), 8,09 (d, 1H, J = 2,4 Hz).

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Ia-52

p.f. = 247-249°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,21-1,36 (m, 2H), 1,40 (s, 9H), 1,62-1,78 (m, 2H), 1,98-2,32 (m, 5H), 2,55 (t, 4H, J = 6,0 Hz), 3,23-3,38 (m, 1H), 3,55 (t, 4H, J = 6,0 Hz), 3,72 (d, 1H, J = 9,6 Hz), 6,94 (d, 2H, J = 9,0 Hz), 7,10 (s, 1H), 7,42 (d, 1H, J = 9,0 Hz).

20 Ia-53

p.f. = 234-235°C

25 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,38 (m, 2H), 1,41 (s, 9H), 1,64-1,80 (m, 2H), 2,00-2,32 (m, 5H), 3,25-3,40 (m, 1H), 3,73 (d, 1H, J = 9,3 Hz), 7,43 (s, 1H), 7,48 (t, 2H, J = 7,5 Hz), 7,55-7,66 (m, 3H), 7,68-7,89 (m, 4H).

Ia-54

30 p.f. = 235-236°C

35 RMN- ^1H (CDCl_3) δ ppm = 1,24-1,39 (m, 2H), 1,25 (d, 6H, J = 6,3 Hz), 1,39 (d, 6H, J = 6,9 Hz), 1,60-1,80 (m, 2H), 2,00-2,28 (m, 5H), 2,21 (s, 3H), 2,38 (t, 2H, J = 10,8 Hz), 3,15 (septet, 1H, J = 6,3 Hz), 3,23-3,38 (m, 1H), 3,40 (d, 2H, J = 11,7 Hz), 3,72-3,88 (m, 2H), 3,87 (d, 1H, J = 9,3 Hz), 6,78-6,86 (m, 3H), 7,50 (d, 1H, J = 9,6 Hz).

Ia-55

p.f. = 185-186°C

40 RMN- ^1H (CDCl_3) δ ppm = 1,14 (d, 6H, J = 6,3 Hz), 1,22-1,38 (m, 2H), 1,41 (s, 9H), 1,62-1,78 (m, 2H), 2,02 (t, 2H, J = 10,5 Hz), 2,02-2,10 (m, 2H), 2,16-2,31 (m, 3H), 3,24-3,39 (m, 1H), 3,56 (d, 2H, J = 9,3 Hz), 3,63-3,80 (m, 3H), 7,46 (dd, 1H, J = 1,5, 8,1 Hz), 7,51 (t, 1H, J = 8,1 Hz), 7,63 (s, 1H), 7,81 (t, 1H, J = 1,8 Hz), 7,98 (dt, 1H, J = 1,8, 8,1 Hz).

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Ia-56

p.f. = 229-230°C

50 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,28-1,54 (m, 4H), 1,38 (s, 6H), 1,78-1,84 (m, 2H), 1,90-2,00 (m, 2H), 2,15-2,30 (m, 1H), 2,97-3,13 (m, 1H), 4,90 (s, 1H), 6,79 (d, 1H, J = 9,0 Hz), 7,34 (d, 2H, J = 8,7 Hz), 7,48 (d, 2H, J = 8,4 Hz), 9,72 (s, 1H).

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Ia-57

p.f. = 211-212°C

60 RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,24-1,40 (m, 2H), 1,38 (s, 9H), 1,57-1,74 (m, 2H), 1,91 (s, 3H), 1,92-2,01 (m, 2H), 2,12-2,24 (m, 2H), 2,51 (ancha s, 1H), 3,18-3,33 (m, 1H), 4,96 (d, 1H, J = 9,3 Hz), 7,16-7,53 (m, 9H), 7,41 (s, 1H).

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Ia-58

p.f. = 298-299°C

5 RMN- ^1H (DMSO- d_6) δ ppm = 1,24 (s, 9H), 1,27 (s, 9H), 1,28-1,54 (m, 4H), 1,75-2,02 (m, 4H), 2,14-2,28 (m, 1H), 2,97-3,11 (m, 1H), 6,78 (d, 1H, J = 8,4 Hz), 7,18 (d, 2H, J = 9,0 Hz), 7,48 (d, 2H, J = 9,0 Hz), 9,46 (s, 1H), 9,76 (s, 1H).

10 Ia-59

p.f. = 253-254°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,40 (m, 2H), 1,41 (s, 9H), 1,65-1,81 (m, 2H), 2,04-2,16 (m, 2H), 2,22-2,36 (m, 2H), 3,24-3,41 (m, 1H), 3,74 (d, 1H, J = 9,6 Hz), 7,40-7,54 (m, 3H), 7,88-8,01 (m, 3H), 8,66 (d, 1H, J = 1,5 Hz), 9,57 (d, 1H, J = 1,2 Hz).

Ia-60

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p.f. = 213-214°C

25 RMN- ^1H (DMSO) δ ppm = 1,32-1,50 (m, 2H), 1,35 (s, 9H), 1,52-1,70 (m, 2H), 1,88-2,00 (m, 2H), 2,04-2,16 (m, 2H), 2,22-2,38 (m, 1H), 2,65 (s, 3H), 2,99-3,15 (m, 1H), 6,46 (d, 1H, J = 9,3 Hz), 7,28 (d, 1H, J = 9,0 Hz), 7,81 (s, 1H), 8,20 (s, 1H), 8,47 (s, 1H), 9,89 (s, 1H).

Ia-61

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p.f. = 274-275°C

35 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 1H), 1,28-1,58 (m, 4H), 1,84-2,08 (m, 4H), 2,22-2,40 (m, 1H), 2,99-3,15 (m, 1H), 3,01 (s, 3H), 6,81 (d, 1H, J = 8,1 Hz), 7,78 (d, 2H, J = 7,8 Hz), 7,84 (d, 2H, J = 8,4 Hz), 8,18 (s, 1H), 10,43 (s, 1H).

Ia-62

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p.f. = 235-236°C

45 RMN- ^1H (CDCl_3) δ ppm = 1,22-1,39 (m, 2H), 1,41 (s, 3H), 1,66-1,80 (m, 2H), 2,01-2,12 (m, 2H), 2,14-2,22 (m, 1H), 2,23-2,34 (m, 2H), 3,24-3,42 (m, 1H), 3,69 (d, 1H, J = 9,5 Hz), 6,44 (d, 1H, J = 9,3 Hz), 7,27 (ancha s, 1H), 7,28 (d, 1H, J = 9,3 Hz), 7,37 (dd, 1H, J = 2,4, 9,0 Hz), 7,68 (d, 1H, J = 9,6 Hz), 8,04 (d, 1H, J = 2,4 Hz).

Ia-63

p.f. = 277-279°C

50 RMN- ^1H (DMSO- d_6) δ ppm = 1,27 (s, 9H), 1,28-1,54 (m, 4H), 1,77-2,02 (m, 4H), 2,15-2,29 (m, 1H), 2,90 (s, 3H), 2,96-3,13 (m, 1H), 6,79 (d, 1H, J = 8,7 Hz), 7,12 (d, 2H, J = 9,0 Hz), 7,54 (d, 2H, J = 9,0 Hz), 9,50 (s, 1H), 9,81 (s, 1H).

55 Ia-64

p.f. = 259-260°C

60 RMN- ^1H (DMSO- d_6) δ ppm = 1,26 (s, 9H), 1,26-1,50 (m, 4H), 1,74-1,99 (m, 4H), 2,10-2,25 (m, 1H), 2,95-3,10 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 6,97 (d, 2H, J = 9,0 Hz), 7,42 (d, 2H, J = 9,0 Hz), 7,50-7,71 (m, 5H), 9,73 (s, 1H), 10,05 (s, 1H).

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Ia-65

p.f. = 292-293°C

5 RMN-H¹ (DMSO-d₆) δ ppm = 1,27 (s, 9H), 1,28-1,54 (m, 4H), 1,62-1,72 (m, 2H), 1,77-1,87 (m, 2H), 1,91-2,10 (m, 4H), 2,13-2,25 (m, 1H), 2,98-3,12 (m, 1H), 3,41-3,52 (m, 2H), 5,09 (s, 1H), 6,79 (d, 1H, J = 9,0 Hz), 6,91 (d, 2H, J = 9,0 Hz), 7,37 (d, 2H, J = 9,0 Hz), 7,42 (d, 2H, J = 9,0 Hz), 7,51 (d, 2H, J = 9,0 Hz), 9,56 (s, 1H).

10 Ia-66

p.f. = >300°C

15 RMN-H¹ (DMSO-d₆) δ ppm = 1,27 (s, 9H), 1,28-1,58 (m, 4H), 1,85-2,02 (m, 4H), 2,40-2,52 (m, 1H), 3,00-3,16 (m, 1H), 6,81 (d, 1H, J = 9,0 Hz), 7,50-7,58 (m, 3H), 7,90-7,97 (m, 2H), 12,58 (s, 1H).

Ia-67

20 p.f. = 199-200°C

25 RMN-H¹ (DMSO-d₆) δ ppm = 1,14 (d, 6H, J = 6,3 Hz), 1,28 (s, 9H), 1,31-1,48 (m, 4H), 1,76-1,88 (m, 2H), 2,17 (t, 2H, J = 11,1 Hz), 2,82 (t, 2H, J = 11,7 Hz), 3,46 (d, 2H, J = 11,4 Hz), 3,20-3,36 (m, 1H), 3,62-3,74 (m, 2H), 4,02 (d, 2H, J = 12,9 Hz), 6,83 (d, 2H, J = 9,0 Hz), 6,89 (d, 1H, J = 8,7 Hz), 7,28 (d, 2H, J = 9,0 Hz), 8,27 (s, 1H).

Ia-68

p.f. = 237-239°C

30 RMN-H¹ (CDCl₃/DMSO) δ ppm = 1,40 (s, 9H), 1,49-1,65 (m, 2H), 1,99-2,10 (m, 2H), 2,95 (t, 2H, J = 11,1 Hz), 3,36-3,52 (m, 1H), 4,17 (d, 1H, J = 12,9 Hz), 5,84 (d, 1H, J = 8,7 Hz), 6,39 (d, 1H, J = 9,6 Hz), 7,21 (d, 1H, J = 9,3 Hz), 7,51 (dd, 1H, J = 2,4, 9,3 Hz), 7,72 (d, 1H, J = 9,9 Hz), 7,85 (d, 1H, J = 2,7 Hz), 8,04 (s, 1H).

35 Ia-69

p.f. = 259-260°C

40 RMN-H¹ (DMSO) δ ppm = 1,25-1,55 (m, 4H), 1,27 (s, 9H), 1,82-2,05 (m, 4H), 2,22-2,36 (m, 1H), 2,98-3,17 (m, 1H), 4,16 (s, 3H), 6,80 (d, 1H, J = 8,4 Hz), 7,77-7,87 (m, 4H), 10,16 (s, 1H).

Ia-70

45 p.f. = 259-260°C

50 RMN-H¹ (DMSO) δ ppm = 1,28 (s, 9H), 1,36-1,56 (m, 2H), 1,80-1,92 (m, 2H), 2,86-3,02 (m, 2H), 3,36-3,52 (m, 1H), 4,04-4,20 (m, 2H), 6,92 (d, 1H, J = 7,5 Hz), 7,38-7,58 (m, 3H), 8,00-8,14 (m, 2H), 8,90 (s, 1H), 9,08 (s, 1H), 9,63 (s, 1H).

Ia-71

55 p.f. = 228,229°C

60 RMN-H¹ (CDCl₃/DMSO) δ ppm = 1,27-1,42 (m, 2H), 1,38 (s, 9H), 1,57-1,75 (m, 2H), 1,90-2,02 (m, 2H), 2,12-2,34 (m, 3H), 3,14-3,32 (m, 1H), 5,37 (d, 1H, J = 9,3 Hz), 7,38-7,43 (m, 3H), 7,46 (d, 2H, J = 8,7 Hz), 7,51-7,60 (m, 2H), 7,68 (d, 2H, J = 9,0 Hz), 9,33 (s, 1H).

Ia-75

p.f. = 169-170°C

65 RMN-H¹ (CDCl₃) δ ppm = 0,58-0,72 (m, 1H), 0,80 (d, 3H, J = 6,6 Hz), 0,94 (d, 3H, J = 6,0 Hz), 1,14-1,35 (m, 3H), 1,39 (s, 9H), 1,48-1,66 (m, 2H), 1,74-2,06 (m, 5H), 2,06-2,44 (m, 6H), 3,18-3,35 (m, 1H), 3,64-3,74 (m, 1H), 4,46-4,60 (m, 1H), 6,98-7,38 (m, 5H).

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Ia-76

p.f. = 236-237°C

5 RMN- H^1 ($CDCl_3$ /DMSO) δ ppm = 1,27-1,42 (m, 2H), 1,38 (d, 6H, J = 6,6 Hz), 1,60-1,78 (m, 2H), 1,94-2,06 (m, 2H), 2,12-2,30 (m, 3H), 3,06,3,34 (m, 2H), 5,10 (ancha s, 1H), 6,41 (d, 1H, J = 9,9 Hz), 7,25 (d, 1H, J = 8,4 Hz), 7,48 (dd, 1H, J = 2,4, 8,7 Hz), 7,68 (d, 1H, J = 9,9 Hz), 8,12 (d, 1H, J = 2,4 Hz), 8,88 (ancha s, 1H).

10 Ia-77

p.f. = 117-118°C

15 RMN- H^1 ($CDCl_3$) δ ppm = 1,38 (d, 6H, J = 6,9 Hz), 1,65 (quintet, 2H, J = 5,4 Hz), 1,75-1,91 (m, 2H), 2,42 (t, 2H, J = 7,4 Hz), 3,10-3,24 (m, 3H), 4,77 (ancha s, 1H), 6,41 (d, 1H, J = 9,6 Hz), 7,18-7,26 (m, 1H), 7,48 (dd, 1H, J = 1,8, 8,7 Hz), 7,67 (d, 1H, J = 9,9 Hz), 8,01 (s, 1H), 8,23 (ancha s, 1H).

Ia-78

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p.f. = 138-139°C

25 RMN- H^1 ($CDCl_3$) δ ppm = 1,41 (s, 9H), 1,64 (quintet, 2H, J = 6,6 Hz), 1,84 (quintet, 2H, J = 7,3 Hz), 2,42 (t, 2H, J = 7,5 Hz), 3,26 (q, 2H, J = 6,5 Hz), 4,59 (ancha s, 1H), 6,41 (d, 1H, J = 9,3 Hz), 7,23 (d, 1H, J = 8,7 Hz), 7,49 (dd, 1H, J = 2,4, 9,0 Hz), 7,67 (d, 1H, J = 9,9 Hz), 8,03 (d, 1H, J = 2,4 Hz), 8,28 (ancha s, 1H).

Ia-79

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p.f. = 289-290°C

RMN- H^1 (DMSO) δ ppm = 1,24-1,63 (m, 4H), 1,28 (s, 9H), 1,84-2,08 (m, 4H), 2,24-2,41 (m, 1H), 3,00-3,16 (m, 1H), 6,82 (d, 1H, J = 8,1 Hz), 7,36-7,60 (m, 5H), 7,86-7,99 (m, 2H), 8,28 (s, 1H), 10,50 (s, 1H).

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Ia-80

p.f. = 239-240°C

40 RMN- H^1 (DMSO) δ ppm = 1,22 (d, 1H, J = 6,6 Hz), 1,23-1,40 (m, 2H), 1,40-1,59 (m, 2H), 1,83-2,04 (m, 4H), 2,23-2,39 (m, 1H), 2,98-3,23 (m, 2H), 7,00 (d, 1H, J = 7,8 Hz), 7,36-7,59 (m, 5H), 7,85-7,97 (m, 2H), 8,29 (s, 1H), 10,50 (s, 1H).

45 Ia-81

p.f. = 205-206°C

50 RMN- H^1 ($CDCl_3$ /DMSO) δ ppm = 1,40 (s, 9H), 1,66 (quintet, 2H, J = 7,0 Hz), 1,85 (quintet, 2H, J = 7,2 Hz), 2,45 (t, 2H, J = 7,5 Hz), 3,24 (t, 2H, J = 6,5 Hz), 5,17 (ancha s, 1H), 7,36-7,54 (m, 5H), 7,85 (d, 1H, J = 8,4 Hz), 8,07 (dd, 1H, J = 1,8, 8,1 Hz), 8,23 (d, 1H, J = 1,8 Hz), 9,61 (s, 1H).

Ia-82

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p.f. = 216-217°C

60 RMN- H^1 (DMSO- d_6) δ ppm = 1,14 (d, 6H, J = 6,3 Hz), 1,22 (d, 6H, J = 6,9 Hz), 1,22-1,53 (m, 4H), 1,76-1,98 (m, 2H), 2,21 (t, 2H, J = 10,8 Hz), 2,22-2,36 (m, 1H), 2,96-3,20 (m, 2H), 3,57 (d, 2H, J = 12,0 Hz), 3,60-3,74 (m, 1H), 6,66-6,85 (m, 2H), 6,98 (d, 1H, J = 7,8 Hz), 7,47 (d, 1H, J = 8,7 Hz), 9,30 (s, 1H).

Ia-83

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p.f. = 118-119°C

RMN- H^1 (DMSO- d_6) δ ppm = 1,41 (d, 6H, J = 6,3 Hz), 1,26 (s, 9H), 1,40-1,67 (m, 4H), 2,17-2,36 (m, 3H), 2,97-3,10 (m, 2H), 3,57 (d, 2H, J = 12,0 Hz), 3,61-3,74 (m, 1H), 6,67-6,92 (m, 3H), 7,48 (t, 1H, J = 9,0 Hz), 9,37 (s, 1H).

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Ia-84

p.f. = 265-267°C

5 RMN- ^1H (DMSO- d_6) δ ppm = 1,21 (d, 6H, J = 6,6 Hz), 1,20-1,57 (m, 4H), 1,60-2,30 (m, 9H), 2,99-3,20 (m, 4H), 3,40-3,52 (m, 2H), 5,09 (s, 1H), 6,91 (d, 2H, J = 8,7 Hz), 6,98 (d, 1H, J = 7,5 Hz), 7,37 (d, 2H, J = 8,7 Hz), 7,42 (d, 2H, J = 8,7 Hz), 7,51 (d, 2H, J = 8,7 Hz), 9,56 (s, 1H).

10 Ia-85

p.f. = 185-186°C

15 RMN- ^1H (DMSO- d_6) δ ppm = 1,26 (s, 9H), 1,42-1,72 (m, 6H), 1,96-2,10 (m, 2H), 2,26 (t, 2H, J = 6,9 Hz), 2,96-3,12 (m, 4H), 3,41-3,52 (m, 2H), 5,09 (s, 1H), 6,88 (d, 1H, J = 8,7 Hz), 6,92 (d, 2H, J = 9,0 Hz), 7,37 (d, 2H, J = 8,7 Hz), 7,43 (d, 2H, J = 9,0 Hz), 7,52 (d, 2H, J = 8,7 Hz), 9,63 (s, 1H).

Ia-86

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p.f. = 162-164°C

25 RMN- ^1H (DMSO- d_6) δ ppm = 1,21 (d, 6H, J = 6,6 Hz), 1,41-1,73 (m, 6H), 1,96-2,10 (m, 2H), 2,26 (t, 2H, J = 7,2 Hz), 2,91-3,20 (m, 5H), 3,42-3,52 (m, 2H), 5,09 (s, 1H), 6,92 (d, 2H, J = 9,3 Hz), 6,99 (t, 1H, J = 6,0 Hz), 7,37 (d, 2H, J = 8,7 Hz), 7,43 (d, 2H, J = 9,3 Hz), 7,52 (d, 2H, J = 8,7 Hz), 9,64 (s, 1H).

Ia-87

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p.f. = 245-247°C

RMN- ^1H (DMSO- d_6) δ ppm = 1,22 (d, 6H, J = 6,6 Hz), 1,22-1,58 (m, 4H), 1,81-2,02 (m, 4H), 2,22,2,36 (m, 1H), 3,00-3,20 (m, 2H), 3,01 (s, 3H), 6,99 (d, 1H, J = 8,4 Hz), 7,75-7,88 (m, 2H), 8,19 (d, 1H, J = 1,2 Hz), 10,43 (s, 1H).

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Ia-88

p.f. = 208-209°C

40 RMN- ^1H (DMSO- d_6) δ ppm = 1,22 (d, 6H, J = 6,9 Hz), 1,22-1,55 (m, 4H), 1,75-1,98 (m, 4H), 2,11-2,24 (m, 1H), 2,98-3,20 (m, 2H), 5,96 (s, 2H), 6,82 (d, 1H, J = 8,4 Hz), 6,91-7,03 (m, 2H), 7,30 (d, 1H, J = 1,8 Hz), 9,72 (s, 1H).

Ia-89

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p.f. = 142-143°C

50 RMN- ^1H (DMSO- d_6) δ ppm = 1,27 (s, 9H), 1,40-1,66 (m, 4H), 2,26 (t, 2H, J = 7,5 Hz), 3,02 (q, 2H, J = 6,6 Hz), 5,96 (s, 2H), 6,82 (d, 1H, J = 8,4 Hz), 6,88 (t, 1H, J = 8,4 Hz), 6,94 (dd, 1H, J = 1,8, 8,4 Hz), 7,30 (d, 1H, J = 1,8 Hz), 9,78 (s, 1H).

Ia-90

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p.f. = 100°C

RMN- ^1H (DMSO- d_6) δ ppm = 1,20 (d, 6H, J = 6,9 Hz), 1,40-1,66 (m, 4H), 2,26 (t, 2H, J = 7,5 Hz), 2,89-2,99 (m, 2H), 3,13 (quint, 1H, J = 6,6 Hz), 5,96 (s, 2H), 6,83 (d, 1H, J = 8,1 Hz), 6,91-7,02 (m, 2H), 7,30 (d, 1H, J = 1,8 Hz), 9,78 (s, 1H).

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Ia-91

p.f. = 189-190°C

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RMN- ^1H (DMSO- d_6) δ ppm = 1,26 (s, 9H), 1,43-1,71 (m, 4H), 2,40 (t, 2H, J = 7,5 Hz), 2,97-3,09 (m, 2H), 3,01 (s, 3H), 6,85-6,93 (m, 1H), 7,76-7,88 (m, 2H), 8,20 (d, 1H, J = 1,2 Hz), 10,49 (s, 1H).

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Ia-104

p.f. = 238-241°C

5 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,50 (m, 1H), 3,05 (m, 1H), 6,55 (ancha s, 1H), 6,79 (d, 1H, J = 8,2), 7,15 (t, 1H, J = 4,8), 8,64 (d, 2H, J = 4,8).

Ia-105

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p.f. = 232-234°C

15 RMN- ^1H (DMSO) δ ppm = 1,26 (s, 9H), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,55 (m, 1H), 3,05 (m, 1H), 6,77 (d, 1H, J = 8,7), 9,92 (s, 2H), 10,93 (s, 1H).

Ia-106

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p.f. = 226-228°C

25 RMN- ^1H (DMSO) δ ppm = 1,28 (s, 9H), 1,22-1,58 (m, 4H), 1,82-2,04 (m, 4H), 2,29 (m, 1H), 3,07 (m, 1H), 6,79 (d, 1H, J = 8,7 Hz), 7,61 (d-d, 1H, J = 1,8 Hz, 8,7 Hz), 8,04 (d, 1H, J = 8,7 Hz), 8,48 (d, 1H, 2,1 Hz), 9,35 (s, 1H), 10,05 (s, 1H):

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Ia-107

p.f. = 282-283°C

30 RMN- ^1H (DMSO) δ ppm = 1,22-1,57 (m, 4H), 1,27 (s, 9H), 1,80-2,04 (m, 4H), 2,27 (m, 1H), 3,06 (m, 1H), 6,81 (d, 1H, J = 8,7 Hz), 7,32 (m, 1H), 7,44 (t, 2H, J = 7,5 Hz), 7,57-7,72 (m, 6H), 9,91 (s, 1H).

Ia-108

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p.f. = 191-192°C

40 RMN- ^1H (DMSO) δ ppm = 1,24-1,58 (m, 4H), 1,28 (s, 9H), 1,86-2,04 (m, 4H), 2,70 (m, 1H), 3,08 (m, 1H), 6,83 (d, 1H, J = 8,7 Hz), 7,63-7,79 (m, 2H), 8,31 (d, 1H, J = 7,2 Hz), 10,27 (s, 1H).

Ia-109

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p.f. = 283-285°C

50 RMN- ^1H (DMSO) δ ppm = 1,24-1,60 (m, 4H), 1,28 (s, 9H), 1,87-2,04 (m, 4H), 2,42 (m, 1H), 3,09 (m, 1H), 3,87 (s, 2H), 6,82 (d, 1H, J = 8,7 Hz), 7,28-7,43 (m, 3H), 7,60 (d, 2H, J = 7,8 Hz), 7,68 (d, 1H, J = 7,2 Hz), 7,89 (d, 1H, J = 7,5 Hz), 9,48 (s, 1H).

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Ia-110

p.f. = 263-265°C

55 RMN- ^1H (DMSO) δ ppm = 1,24-1,54 (m, 4H), 1,27 (s, 9H), 1,76-1,87 (m, 2H), 1,89-2,01 (m, 2H), 2,17 (m, 1H), 3,04 (m, 1H), 4,01 (s, 4H), 6,01 (s, 2H), 6,44 (d, 2H, J = 8,7 Hz), 6,77 (d, 1H, J = 8,7 Hz), 7,39 (d, 2H, J = 9,0 Hz), 9,44 (s, 1H).

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Ia-111

p.f. = 239-241°C

65 RMN- ^1H (DMSO) δ ppm = 1,24-1,54 (m, 4H), 1,27 (s, 9H), 1,62-1,76 (m, 4H), 1,80-2,02 (m, 4H), 2,30 (m, 1H), 2,47-2,59 (m, 2H), 2,66-2,76 (m, 2H), 6,08 (m, 1H), 6,79 (d, 1H, J = 9,0 Hz), 6,88 (d, 1H, J = 6,9 Hz), 7,02 (t, 1H, J = 7,5 Hz), 7,13 (d, 1H, J = 7,5 Hz), 8,98 (s, 1H).

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Ia-124

p.f. = 247-249°C

5 RMN-H¹ (DMSO) δ ppm = 1,15 (d, 6H, J = 6,3 Hz), 1,30 (s, 9H), 2,15-2,26 (m, 2H), 3,48-3,57 (m, 2H), 3,63-3,76 (m, 2H), 6,92 (d, 2H, J = 8,7 Hz), 7,59 (d, 2H, J = 9,0 Hz), 7,38 (d, 2H, J = 9,0 Hz), 7,87 (d, 2H, J = 8,7 Hz), 9,92 (ancha s, 1H), 9,98 (ancha s, 1H).

10 Ia-125

p.f. = 228-232°C

15 RMN-H¹ (DMSO) δ ppm = 1,30 (s, 9H), 1,95-2,08 (m, 2H), 2,77-2,89 (m, 4H), 7,17 (d, 1H, J = 8,4 Hz), 7,39 (d, 2H, J = 9,0 Hz), 7,42-7,48 (m, 1H), 7,64 (ancha s, 1H), 7,87 (d, 2H, J = 9,0 Hz), 9,99 (ancha s, 2H).

Ia-126

20 p.f. = 244-246°C

RMN-H¹ (DMSO) δ ppm = 1,31 (s, 9H), 7,42 (d, 2H, J = 8,4 Hz), 7,81 (d-d, 1H, J = 2,1 Hz, 8,7 Hz), 7,93 (d, 2H, J = 9,0 Hz), 8,05 (d, 1H, J = 9,0 Hz), 8,66 (d, 1H, J = 2,1 Hz), 9,29 (s, 1H), 10,05 (ancha s, 1H), 10,39 (ancha s, 1H).

25 Ia-127

p.f. = 238-239°C

30 RMN-H¹ (DMSO) δ ppm = 1,30 (s, 9H), 4,18-4,27 (m, 4H), 6,81 (d, 1H, J = 8,4 Hz), 7,16 (d-d, 1H, J = 2,7 Hz, 9,0 Hz), 7,34-7,42 (m, 3H), 7,85 (d, 2H, J = 8,4 Hz), 9,94 (ancha s, 1H), 9,99 (ancha s, 1H).

Ia-128

35 p.f. = 286-287°C

40 RMN-H¹ (DMSO) δ ppm = 1,31 (s, 9H), 7,41 (d, 2H, J = 8,7 Hz), 7,71 (d, 2H, J = 8,4 Hz), 7,91 (d, 2H, J = 8,7 Hz), 7,99 (d, 2H, J = 8,7 Hz), 10,05 (ancha s, 1H), 10,44 (ancha s, 1H).

Ia-129

45 p.f. = 232-234°C

RMN-H¹ (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,25 (1H, m), 3,07 (m, 1H), 6,80 (d, 1H, J = 9,0), 7,37 (d, 1H, J = 8,1), 7,53 (t, 1H, J = 8,1), 7,75 (t, 1H, J = 8,1), 8,12 (s, 1H), 10,16 (s, 1H).

50 Ia-130

p.f. = 274-277°C

55 RMN-H¹ (DMSO) δ ppm = 1,27 (s, 9H), 1,23-1,58 (m, 4H), 1,81-2,03 (m, 4H), 2,28 (m, 1H), 3,07 (m, 1H), 6,80 (d, 1H, J = 8,4 Hz), 7,36 (d-d, 1H, J = 0,9 Hz, 5,7 Hz), 7,43 (d-d, 1H, J = 2,1 Hz, 8,7 Hz), 7,60 (d, 1H, J = 5,4 Hz), 7,78 (d, 1H, J = 8,7 Hz), 8,40 (d, 1H, 1,8 Hz), 9,97 (ancha s, 1H).

Ia-131

60 p.f. = 259-260°C

65 RMN-H¹ (DMSO) δ ppm = 1,31 (s, 9H), 7,40 (d, 1H, J = 4,8 Hz), 7,41 (d, 2H, J = 8,7 Hz), 7,66 (d, 1H, J = 5,1 Hz), 7,67 (d-d, 1H, J = 1,8 Hz, 8,7 Hz), 7,84 (d, 1H, J = 9,0 Hz), 7,92 (d, 2H, J = 8,7 Hz), 8,50 (s, 1H), 10,03 (ancha s, 1H), 10,27 (brs 1H).

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Ia-132

p.f. = 265-266°C

5 RMN- H^1 (DMSO) δ ppm = 1,17 (d, 6H, J = 6,6 Hz), 1,31 (s, 9H), 4,10 (m, 1H), 7,35-7,46 (m, 3H), 7,54 (d, 1H, J = 7,5 Hz), 7,87-7,97 (m, 3H), 8,15 (ancha s, 1H), 8,20 (d, 1H, J = 7,5 Hz), 10,03 (ancha s, 1H), 10,25 (ancha s, 1H).

Ia-133

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p.f. = 249-250°C

15 RMN- H^1 (DMSO) δ ppm = 1,31 (s, 9H), 7,41 (d, 2H, J = 8,7 Hz), 7,45 (d, 1H, J = 5,4 Hz), 7,67 (d-d, 1H, J = 1,8 Hz, 8,7 Hz), 7,76 (d, 1H, J = 5,4 Hz), 7,92 (d, 2H, J = 8,7 Hz), 7,95 (d, 1H, J = 8,1 Hz), 8,39 (d, 1H, J = 1,8 Hz), 10,02 (ancha s, 1H), 10,23 (ancha s, 1H).

Ia-134

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p.f. = 305-306°C

25 RMN- H^1 (DMSO) δ ppm = 1,25 (m, 2H), 1,25 (s, 9H), 1,52 (m, 2H), 1,82 (m, 2H), 1,94 (m, 2H), 2,13 (m, 1H), 3,04 (m, 1H), 6,00 (d, 1H, J = 8,1), 6,74 (d, 1H, J = 8,4), 7,3-7,5 (m, 6H), 7,85 (d, 2H, J = 7,5), 8,31 (d, 1H, J = 8,4).

Ia-135

p.f. = 220-222°C

30 RMN- H^1 (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,37 (m, 1H), 3,03 (m, 1H), 6,80 (d, 1H, J = 8,7), 7,04 (m, 1H), 7,29 (m, 1H), 7,79 (m, 1H), 9,60 (s, 1H).

Ia-136

35

p.f. = 263-264°C

40 RMN- H^1 (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,20 (m, 1H), 3,03 (m, 1H), 6,80 (d, 1H, J = 8,4), 6,87 (m, 1H), 7,31 (m, 2H), 10,21 (s, 1H).

Ia-137

p.f. = 260-262°C

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RMN- H^1 (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,30 (m, 1H), 3,05 (m, 1H), 6,80 (d, 1H, J = 8,4), 7,13 (t, 2H, J = 8,1), 7,31 (m, 1H), 9,52 (s, 1H).

50 Ia-138

p.f. = 270-273°C

55 RMN- H^1 (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,12 (m, 1H), 3,05 (m, 1H), 6,79 (d, 1H, J = 9,0), 7,31 (m, 2H), 7,80 (m, 1H), 10,05 (s, 1H).

Ia-139

60

p.f. = 267-270°C

65 RMN- H^1 (DMSO) δ ppm = 1,30 (s, 9H), 4,05 (s, 4H), 6,04 (s, 2H), 6,51 (d, 2H, J = 8,7 Hz), 7,34 (d, 2H, J = 8,4 Hz), 7,54 (d, 2H, J = 8,4 Hz), 7,87 (d, 2H, J = 8,4 Hz), 9,82 (ancha s, 1H), 9,97 (ancha s, 1H).

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Ia-140

p.f. = 227-229°C

5 RMN- ^1H (DMSO) δ ppm = 1,22 (d, 6H, J = 6,6 Hz), 1,20-1,57 (m 4H), 1,80-2,01 (m, 4H), 2,27 (m, 1H), 2,95-3,22 (m, 2H), 6,99 (d, 1H, J = 7,8 Hz), 7,65 (d, 2H, J = 8,7 Hz), 7,80 (d, 2H, J = 8,4 Hz), 10,18 (ancha s, 1H).

Ia-141

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p.f. = 205-207°C

15 RMN- ^1H (DMSO) δ ppm = 1,22 (d, 6H, J = 6,9 Hz), 1,20-1,55 (m, 4H), 1,75-2,05 (m, 6H), 2,21 (m, 1H), 2,72-2,85 (m, 4H), 2,93-3,20 (m, 2H), 6,98 (d, 1H, J = 8,1 Hz), 7,10 (d, 1H, J = 8,1 Hz), 7,26 (d-d, 1H, J = 2,1 Hz, 8,1 Hz), 7,51 (s, 1H), 9,67 (ancha s, 1H).

Ia-142

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p.f. = 295-296°C

25 RMN- ^1H (DMSO) δ ppm = 1,15 (d, 6H, J=6,6), 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,27 (m, 1H), 3,05 (m, 1H), 4,07 (m, 1H), 6,80 (d, 1H, J = 8,7), 7,64 (d, 2H, J = 8,7), 7,79 (d, 2H, J = 8,7), 8,06 (d, 1H, J = 7,5), 10,01 (s, 1H).

Ia-143

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p.f. = 146-147°C

35 RMN- ^1H (DMSO) δ ppm = 1,26 (s, 9H), 1,5-1,7 (m, 4H), 2,36 (t, 2H, J = 7,8), 3,03 (q, 2H, J = 6,3), 6,89 (t, 1H, J = 6,3), 7,66 (d, 2H, J = 8,4), 7,80 (d, 2H, J = 8,4), 10,25 (s, 1H).

35 Ia-144

p.f. = 138-140°C

40 RMN- ^1H (DMSO) δ ppm = 1,21 (d, 6H, J = 6,0), 1,4-1,7 (m, 4H), 2,37 (t, 2H, J = 7,5), 2,96 (q, 2H, J = 6,3), 3,14 (m, 1H), 6,99 (t, 1H, J = 5,4), 7,66 (d, 2H, J = 7,8), 7,81 (d, 2H, J = 7,8), 10,26 (s, 1H).

Ia-145

45

p.f. = 134-136°C

50 RMN- ^1H (DMSO) δ ppm = 1,26 (s, 9H), 1,39 (m, 2H), 1,4-1,7 (m, 4H), 2,28 (t, 2H, J = 7,2), 2,79 (m, 4H), 3,02 (q, 2H, J = 7,2), 6,88 (t, 1H, J = 6,0), 7,10 (t, 1H, J = 6,0), 7,51 (s, 1H), 9,73 (s, 1H).

Ia-146

p.f. = 135-137°C

55 RMN- ^1H (DMSO) δ ppm = 1,20 (d, 6H, J = 6,6), 1,4-1,7 (m, 4H), 1,99 (m, 2H), 2,28 (t, 2H, J = 7,2), 2,79 (m, 4H), 2,94 (q, 2H, J = 6,3), 3,13 (m, 1H), 6,98 (t, 1H, J = 6,9), 7,10 (d, 2H, J = 8,1), 7,26 (d, 2H, J = 8,1), 7,51 (s, 1H), 9,73 (s, 1H).

60 Ia-147

p.f. = 206-207°C

65 RMN- ^1H (DMSO) δ ppm = 1,29 (s, 9H), 4,54 (d, 2H, J = 5,7 Hz), 7,35 (d, 2H, J = 9,0 Hz), 7,52 (d, 2H, J = 7,8 Hz), 7,69 (d, 2H, J = 8,1 Hz), 7,83 (d, 2H, J = 8,7 Hz), 9,02 (t, 1H, J = 5,7 Hz), 9,97 (ancha s, 1H).

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Ia-148

p.f. = 250-251°C

5 RMN-H¹ (DMSO) δ ppm = 1,30 (s, 9H), 7,18 (t, 2H, J = 9,3 Hz), 7,40 (d, 2H, J = 8,7 Hz), 7,76 (d-d, 2H, J = 5,1 Hz, 9,3 Hz), 7,88 (d, 2H, J = 9,0 Hz), 10,02 (ancha s, 1H), 10,17 (ancha s, 1H).

Ia-149

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p.f. = 220-222°C

15 RMN-H¹ (DMSO) δ ppm = 1,30 (s, 9H), 3,74 (s, 3H), 6,92 (d, 2H, J = 9,0 Hz), 7,38 (d, 2H, J = 9,0 Hz), 7,64 (d, 2H, J = 9,0 Hz), 7,87 (d, 2H, J = 9,0 Hz), 9,99 (s, 2H).

Ia-150

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p.f. = 264-266°C

25 RMN-H¹ (DMSO) δ ppm = 1,31 (s, 9H), 1,66-1,76 (m, 4H), 2,57-2,66 (m, 2H), 2,71-2,80 (m, 2H), 6,98 (m, 1H), 7,06-7,16 (m, 2H), 7,38 (d, 2H, J = 9,0 Hz), 7,90 (d, 2H, J = 8,7 Hz), 9,60 (s, 1H), 9,99 (s, 1H).

25 Ia-151

p.f. = 235-236°C

30 RMN-H¹ (DMSO) δ ppm = 1,03-1,39 (m, 5H), 1,27 (s, 9H), 1,55-1,87 (m, 5H), 3,73 (m, 1H), 7,31 (d, 2H, J = 8,7 Hz), 7,76 (d, 2H, J = 8,4 Hz), 8,01 (d, 1H, J = 7,8 Hz), 9,90 (s, 1H).

Ia-152

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p.f. = 244-246°C

40 RMN-H¹ (DMSO) δ ppm = 0,50-0,72 (m, 4H), 1,27 (s, 9H), 2,81 (m, 1H), 7,31 (d, 2H, J = 8,7 Hz), 7,73 (d, 2H, J = 8,7 Hz), 8,30 (d, 1H, J = 4,2 Hz), 9,91 (ancha s, 1H).

Ia-153

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p.f. = >300°C

45 RMN-H¹ (DMSO) δ ppm = 1,06 (m, 6H), 1,27 (s, 9H), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,25 (m, 1H), 2,7 (m, 1H), 3,05 (m, 1H), 3,51 (m, 4H), 4,30 (m, 1H), 6,80 (d, 1H, J = 8,4), 7,34 (d, 2H, J = 8,4), 7,65 (d; 2H, J = 8,4), 10,01 (s, 1H).

50 Ia-154

p.f. = 247-249°C

55 RMN-H¹ (DMSO) δ ppm = 1,05 (m, 6H), 1,27 (s, 9H), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,23 (m, 1H), 2,77 (m, 1H), 3,05 (m, 1H), 3,52 (m, 4H), 4,33 (m, 1H), 6,80 (d, 1H, J = 9,0), 7,03 (d, 1H, J = 7,8), 7,35 (t, 1H, J = 7,8), 7,59 (d, 1H, J = 7,8), 7,68 (s, 1H), 9,96 (s, 1H).

Ia-155

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p.f. = 258-259°C

65 RMN-H¹ (DMSO) δ ppm = 1,25 (m, 2H), 1,50 (m, 2H), 1,86 (m, 2H), 1,99 (m, 2H), 2,28 (m, 1H), 2,93 (s, 3H), 3,10 (m, 1H), 7,02 (d, 1H, J = 7,5), 7,65 (d, 2H, J = 8,4), 7,80 (d, 2H, J = 8,4), 10,20 (s, 1H).

ES 2 342 344 T3

Ia-156

p.f. = 250-253°C

5 RMN-H¹ (DMSO) δ ppm = 1,28 (m, 2H), 1,50 (m, 2H), 1,82 (m, 2H), 2,00 (m, 4H), 2,22 (m, 1H), 2,79 (m, 4H), 2,92 (s, 3H), 3,11 (m, 1H), 7,01 (d, 1H, J = (,1), 7,26 (d, 1H, J = 8,1), 7,51 (s, 1H), 9,68 (s, 1H).

Ia-157

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p.f. = 259-262°C

15 RMN-H¹ (DMSO) δ ppm = 1,13 (d, 6H, J = 6,0), 1,25 (m, 2H), 1,50 (m, 2H), 1,80 (m, 2H), 1,95 (m, 2H), 2,17 (m, 3H), 2,92 (s, 3H), 3,10 (m, 1H), 3,70 (m, 2H), 3,68 (m, 2H), 6,86 (d, 2H J=9,3), 7,00 (d, 1H, J = 7,2), 7,43 (d, 2H, J = 9,3), 9,58 (s, 1H).

Ia-158

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p.f. = 298-300°C

RMN-H¹ (DMSO) δ ppm = 1,31 (s, 9H), 7,30-7,50 (m, 5H), 7,63-7, 71 (m, 4H), 7,87 (d, 2H, J = 8,7 Hz), 7,91 (d, 2H, J = 9,0 Hz), 10,03 (ancha s, 1H), 10,22 (ancha s, 1H).

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Ia-159

p.f. = 278-281°C

30 RMN-H¹ (DMSO) δ ppm = 0,74-1,87 (m, 20H), 1,29 (s, 9H), 3,76 (m, 1H), 7,32 (d, 2H, J = 8,4 Hz), 7,75 (d, 2H, J = 8,7 Hz), 7,75 (d, 1H, J = 8,7 Hz), 7,90 (ancha s, 1H).

Ia-160

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p.f. = 227-228°C

40 RMN-H¹ (DMSO) δ ppm = 1,22-1,55 (m, 4H), 1,27 (s, 9H), 1,80-2,02 (m, 4H), 2,23 (m, 1H), 3,06 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,45 (t, 1H, J = 9,9 Hz), 7,82 (m, 1H), 8,12 (d-d, 1H, J = 2,4 Hz, 6,3 Hz), 10,17 (ancha s, 1H).

Ia-161

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p.f. = 259-260°C

RMN-H¹ (DMSO) δ ppm = 1,22-1,54 (m, 4H), 1,27 (s, 9H), 1,78-2,01 (m, 4H), 2,16 (s, 3H), 2,21 (m, 1H), 3,05 (m, 1H), 6,77 (d, 1H, J = 8,4 Hz), 7,12-7,21 (m, 2H), 7,53 (m, 1H), 9,90 (ancha s, 1H).

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Ia-162

p.f. = 222-226°C

55 RMN-H¹ (DMSO) δ ppm = 1,15 (d, 6H, J = 6,3 Hz), 1,26 (d, 6H, J = 6,9 Hz), 2,16-2,26 (m, 2H), 3,31 (m, 1H), 3,48-3,58 (m, 2H), 3,63-3,76 (m, 2H), 6,92 (d, 2H, J = 9,0 Hz), 7,32 (d, 2H, J = 8,7 Hz), 7,59 (d, 2H, 9,0 Hz), 7,89 (d, 2H, J = 9,0 Hz), 9,92 (s, 1H), 10,13 (ancha s, 1H).

Ia-163

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p.f. = 197-200°C

65 RMN-H¹ (DMSO) δ ppm = 1,26 (d, 6H, J = 6,3 Hz), 1,95-2,09 (m, 2H), 2,77-2,90 (m, 4H), 3,32 (m, 1H), 7,17 (d, 1H, J = 8,1 Hz), 7,32 (d, 2H, J = 8,7 Hz), 7,45 (d-d, 1H, J = 1,8 Hz, 8,1 Hz), 7,64 (ancha s, 1H), 7,90 (d, 2H, J = 8,7 Hz), 9,99 (ancha s, 1H), 10,13 (ancha s, 1H).

ES 2 342 344 T3

Ia-164

p.f. = 145-247°C

5 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-2,0 (m, 16H), 2,19 (m, 1H), 3,05 (m, 1H), 4,74 (m, 1H), 6,79 (d, 1H, J = 9,0), 6,80 (d, 2H, J = 9,0), 7,47 (d, 2H, J = 9,0), 9,63 (s, 1H).

Ia-165

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p.f. = >300°C

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RMN- ^1H (DMSO) δ ppm = 1,03-2,02 (m, 18H), 1,27 (s, 9H), 2,26 (m, 1H), 3,06 (m, 1H), 3,73 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,63 (d, 2H, J = 9,0 Hz), 7,78 (d, 2H, J = 8,7 Hz), 8,02 (d, 1H, J = 8,1 Hz), 10,00 (ancha s, 1H).

Ia-166

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p.f. = 200-201°C

RMN- ^1H (DMSO) δ ppm = 1,03-2,02 (m, 18H), 1,27 (s, 9H), 2,25 (m, 1H), 3,06 (m, 1H), 3,73 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,33 (t, 1H, J = 8,1 Hz), 7,46 (d, 1H, J = 8,1 Hz), 7,76 (m, 1H), 7,94 (m, 1H), 8,14 (d, 1H, J = 8,1 Hz), 9,92 (ancha s, 1H).

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Ia-167

p.f. = 282-285°C

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RMN- ^1H (DMSO) δ ppm = 1,22-1,57 (m, 4H), 1,27 (s, 9H), 1,87-2,03 (m, 4H), 2,49 (m, 1H), 3,07 (m, 1H), 6,83 (d, 1H, J = 8,7 Hz), 13,20 (ancha s, 1H).

Ia-168

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p.f. = 120-124°C

40 RMN- ^1H (DMSO) δ ppm = 0,94-1,66 (m, 14H), 1,27 (s, 9H), 1,80-2,04 (m, 4H), 2,25 (m, 1H), 2,92 (m, 1H), 3,06 (m, 1H), 6,78 (d, 1H, J = 8,7 Hz), 7,42-7,53 (m, 2H), 7,63 (d, 1H, J = 7,2 Hz), 7,73 (m, 1H), 8,17 (m, 1H), 10,11 (ancha s, 1H).

Ia-169

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p.f. = 256-257°C

RMN- ^1H (DMSO) δ ppm = 0,93-1,20 (m, 5H), 1,24-1,64 (m, 9H), 1,27 (s, 9H), 1,80-2,02 (m, 4H), 2,27 (m, 1H), 2,87 (m, 1H), 3,06 (m, 1H), 6,79 (d, 1H, J = 9,0 Hz), 7,48 (d, 1H, J = 7,2 Hz), 7,68-7,79 (m, 4H), 10,17 (ancha s, 1H).

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Ia-171

p.f. = 242-244°C

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RMN- ^1H (DMSO) δ ppm = 1,27 (m, 12H), 1,45 (m, 4H), 1,90 (m, 4H), 2,25 (m, 1H), 3,07 (m, 1H), 3,67 (m, 2H), 6,77 (d, 1H, J = 8,7), 6,90 (d, 1H, J = 7,8), 7,31 (t, 1H, J = 7,5), 7,53 (d, 1H, J = 7,8), 7,59 (s, 1H), 9,89 (s, 1H).

Ia-172

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p.f. = >310°C

65 RMN- ^1H (DMSO) δ ppm = 1,27 (m, 12H), 1,38 (m, 4H), 1,84 (m, 2H), 1,97 (m, 2H), 2,25 (m, 1H), 3,07 (m, 1H), 3,66 (m, 2H), 6,81 (d, 1H, J = 8,7), 7,20 (d, 2H, J = 6,7), 7,61 (d, 2H, J = 8,7), 9,94 (s, 1H).

ES 2 342 344 T3

Ia-173

p.f. = 279-281°C

5 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,83 (m, 6H), 1,93 (m, 2H), 2,21 (m, 1H), 2,36 (m, 2H), 3,05 (m, 1H), 3,54 (m, 2H), 6,79 (d, 1H, J = 8,7), 7,16 (d, 2H, J = 9,0), 7,56 (d, 2H, J = 9,0), 9,83 (s, 1H).

Ia-174

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p.f. = 258-262°C

15 RMN- ^1H (DMSO) δ ppm = 0,29 (m, 2H), 0,53 (m, 2H), 1,20 (m, 1H), 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,7-2,0 (m, 4H), 2,20 (m, 1H), 3,05 (m, 1H), 3,75 (d, 2H, J = 6,9), 6,79 (d, 1H, J = 9,0), 6,83 (d, 2H, J = 9,0), 7,46 (d, 2H, J = 9,0), 9,64 (s, 1H).

Ia-175

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p.f. = 246-248°C

RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-2,0 (m, 18H), 2,19 (m, 1H), 3,04 (m, 1H), 4,23 (m, 1H), 6,79 (d, 1H, J = 8,7), 6,84 (d, 2H, J = 9,0), 7,45 (d, 2H, J = 9,0), 9,64 (s, 1H).

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Ia-176

p.f. = 200-202°C

30 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-2,0 (m, 18H), 2,21 (m, 1H), 3,05 (m, 1H), 4,23 (m, 1H), 6,57 (d, 1H, J = 6,9), 6,80 (d, 1H, J = 9,0), 7,0-7,2 (m, 2H), 7,28 (s, 1H), 9,74 (s, 1H).

Ia-177

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p.f. = 266-268°C

40 RMN- ^1H (DMSO) δ ppm = 1,22-1,56 (m, 4H), 1,27 (s, 9H), 1,79-2,02 (m, 4H), 2,25 (m, 1H), 3,05 (m, 1H), 6,56 (m, 1H), 6,77-6,84 (m, 2H), 7,58-7,71 (m, 5H), 9,92 (ancha s, 1H).

Ia-178 *Compuesto de la invención*

p.f. = 223-224°C

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RMN- ^1H (DMSO) δ ppm = 1,26-1,54 (m, 4H), 1,27 (s, 9H), 1,81-2,02 (m, 4H), 2,45 (m, 1H), 3,06 (m, 1H), 6,80 (d, 1H, J = 8,7 Hz), 8,15 (d-d, 1H, J = 2,4 Hz, 9,0 Hz), 8,27 (d, 1H, J = 9,0 Hz), 8,70 (m, 1H), 10,85 (ancha s, 1H).

50 Ia-179

p.f. = 224-227°C

55 RMN- ^1H (DMSO) δ ppm = 1,24-1,56 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,27 (m, 1H), 3,06 (m, 1H), 6,80 (d, 1H, J = 8,7 Hz), 6,90 (d, 1H, J = 1,8 Hz), 7,72-7,84 (m, 4H), 8,60 (d, 1H, J = 1,8 Hz), 10,09 (ancha s, 1H).

Ia-180

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p.f. = 226-227°C

65 RMN- ^1H (DMSO) δ ppm = 0,92 (d, 6H, J = 6,6 Hz), 1,26-1,55 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,27 (m, 1H), 3,05 (m, 1H), 3,20 (m, 1H), 6,80 (d, 1H, J = 8,7 Hz), 7,42 (d, 1H, J = 7,2 Hz), 7,67-7,79 (m, 4H), 10,19 (ancha s, 1H).

ES 2 342 344 T3

Ia-181

p.f. = 191-192°C

5 RMN-H¹ (DMSO) δ ppm = 0,95 (d, 6H, J = 6,6 Hz), 1,26-1,55 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,25 (m, 1H), 3,06 (m, 1H), 3,23 (m, 1H), 6,80 (d, 1H, J = 8,4 Hz), 7,41-7,53 (m, 2H), 7,58 (d, 1H, J = 7,2 Hz), 7,73 (m, 1H), 8,18 (m, 1H), 10,13 (ancha s, 1H).

10 Ia-182

p.f. = 192-193°C

15 RMN-H¹ (DMSO) δ ppm = 0,30 (m, 2H), 0,55 (m, 2H), 1,2-1,5 (m, 5H), 1,27 (s, 1H), 1,8-2,0 (m, 4H), 2,20 (m, 1H), 3,04 (m, 1H), 3,75 (d, 2H, J = 6,9), 6,58 (m, 1H), 6,79 (d, 1H, J = 8,7), 7,0-7,2 (m, 2H), 7,31 (s, 1H), 9,76 (s, 1H).

Ia-183

20 p.f. = >310°C

RMN-H¹ (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,82 (m, 2H), 1,97 (m, 2H), 2,04 (m, 2H), 2,39 (m, 1H), 2,46 (t, 2H, J = 7,8), 3,07 (m, 1H), 3,79 (t, 2H, J = 7,5), 6,79 (d, 1H, J = 8,7), 7,56 (m, 4H), 9,80 (s, 1H).

25 Ia-184

p.f. = 281,283°C

30 RMN-H¹ (DMSO) δ ppm = 1,24-1,57 (m, 4H), 1,27 (s, 9H), 1,80-2,04 (m, 4H), 2,27 (m, 1H), 3,06 (m, 1H), 6,80 (d, 1H, J = 9,0 Hz), 7,33 (s, 1H), 7,75 (d, 2H, J = 9,3 Hz), 7,91 (d, 2H, J = 8,7 Hz), 8,16 (s, 1H), 10,09 (ancha s, 1H).

Ia-185

35 p.f. = 226-227°C

40 RMN-H¹ (DMSO) δ ppm = 1,24-1,58 (m, 10H), 1,27 (s, 9H), 1,81-2,02 (m, 4H), 2,28 (m, 1H), 2,78-2,88 (m, 4H), 3,06 (m, 1H), 6,80 (d, 1H, J = 8,7 Hz), 7,64 (d, 2H, J = 8,7 Hz), 7,82 (d, 2H, J = 8,7 Hz), 10,25 (ancha s, 1H).

Ia-186

p.f. = 148-150°C

45 RMN-H¹ (DMSO) δ ppm = 1,25-1,60 (m, 10H), 1,27 (s, 9H), 1,82-2,03 (m, 4H), 2,24 (m, 1H), 2,82-2,92 (m, 4H), 3,06 (m, 1H), 6,79 (d, 1H, J = 8,4 Hz), 7,36 (m, 1H), 7,55 (t, 1H, J = 7,8 Hz), 7,84 (m, 1H), 8,06 (m, 1H), 10,18 (ancha s, 1H).

50 Ia-187

p.f. = >310°C

55 RMN-H¹ (DMSO) δ ppm = 1,27 (s, 9H), 1,36 (s, 9H), 1,43 (m, 4H), 1,85 (m, 2H), 1,93 (m, 2H), 2,27 (m, 1H), 3,06 (m, 1H), 6,80 (d, 1H, J = 8,7), 7,58 (s, 1H), 7,62 (d, 2H), 7,75 (d, 2H, J = 9,0), 10,00 (s, 1H).

Ia-188

60 p.f. = 285-292°C

65 RMN-H¹ (DMSO) δ ppm = 0,85 (t, 3H, J = 7,5), 1,11 (d, 3H, J = 6,3), 1,26 (s, 9H), 1,3-1,6 (m, 6H), 1,85 (m, 2H), 1,95 (m, 2H), 2,27 (m, 1H), 3,06 (m, 1H), 3,90 (m, 1H), 6,80 (d, 1H, J = 8,4), 7,64 (d, 2H, J = 8,7), 7,79 (d, 2H, J = 8,7), 7,99 (d, 1H, J = 8,1), 10,02 (s, 1H).

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Ia-189

p.f. = 278-281°C

5 RMN-H¹ (DMSO) δ ppm = 1,27 (s, 9H), 1,2-2,0 (m, 17H), 2,03 (m, 2H), 3,03 (m, 1H), 6,79 (d, 1H, J = 8,4), 7,1-7,3 (m, 3H), 7,94 (s, 1H), 9,78 (m, 2H).

Ia-190

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p.f. = >310°C

15 RMN-H¹ (DMSO) δ ppm = 1,1-2,0 (m, 17H), 1,27 (s, 9H), 2,25 (m, 2H), 3,03 (m, 1H), 6,79 (d, 1H, J = 8,7), 7,48 (m, 4H), 9,71 (m, 2H).

Ia-191

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p.f. = 275-277°C

25 RMN-H¹ (DMSO) δ ppm = 1,16 (d, 6H, J = 6,6 Hz), 1,31 (s, 9H), 4,09 (m, 1H), 7,41 (d, 2H, J = 8,7 Hz), 7,84 (s, 4H), 7,90 (d, 2H, J = 9,0 Hz), 8,11 (d, 1H, J = 7,5 Hz), 10,04 (ancha s, 1H), 10,30 (ancha s, 1H).

25 Ia-192

p.f. = 204-205°C

30 RMN-H¹ (DMSO) δ ppm = 1,15 (d, 6H, J = 6,6 Hz), 1,20-1,56 (m, 4H), 1,22 (d, 6H, J = 6,6 Hz), 1,78-2,00 (m, 4H), 2,25 (m, 1H), 2,98-3,22 (m, 2H), 4,06 (m, 1H), 6,99 (d, 1H, J = 8,1 Hz), 7,34 (t, 1H, J = 8,1 Hz), 7,46 (d, 1H, J = 7,8 Hz), 7,75 (m, 1H), 7,96 (m, 1H), 8,17 (d, 1H, J = 8,7 Hz), 9,94 (ancha s, 1H).

Ia-193

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p.f. = 285-286°C

40 RMN-H¹ (DMSO) δ ppm = 1,15 (d, 6H, J = 6,6 Hz), 1,20-1,56 (m, 4H), 1,22 (d, 6H, J = 6,9 Hz), 1,79-2,00 (m, 4H), 2,26 (m, 1H), 2,97-3,20 (m, 2H), 4,07 (m, 1H), 6,99 (d, 1H, J = 7,8 Hz), 7,64 (d, 2H, J = 8,7 Hz), 7,79 (d, 2H, J = 8,7 Hz), 8,06 (d, 1H, J = 7,5 Hz), 10,02 (ancha s, 1H).

Ia-194

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p.f. = 248-250°C

50 RMN-H¹ (DMSO) δ ppm = 1,22-1,57 (m, 4H), 1,22 (d, 6H, J = 6,6 Hz), 1,78-2,00 (m, 4H), 2,25 (m, 1H), 2,98-3,22 (m, 2H), 6,56 (m, 1H), 6,82 (d, 1H, J = 3,3 Hz), 6,99 (d, 1H, J = 7,8 Hz), 7,58-7,71 (m, 5H), 9,92 (ancha s, 1H).

Ia-195

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p.f. = 271-275°C

55 RMN-H¹ (DMSO) δ ppm = 1,27 (s, 9H), 1,28-1,56 (m, 4H), 1,80-2,02 (m, 4H), 2,25 (m, 1H), 3,06 (m, 1H), 6,80 (d, 1H, J = 9,0 Hz), 7,57 (s, 1H), 7,62-7,74 (m, 4H), 8,39 (s, 1H), 9,99 (ancha s, 1H).

Ia-196

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p.f. = 226-228°C

65 RMN-H¹ (CDCl₃) δ ppm = 0,30 (m, 2H), 1,23 (d, 6H, J = 6,9), 1,2-2,0 (m, 4H), 2,20 (m, 1H), 3,10 (m, 2H), 3,76 (d, 2H, J = 6,9), 6,83 (d, 2H, J = 8,7), 6,99 (d, 1H, J = 8,1), 7,46 (d, 2H, J = 8,7), 9,65 (s, 1H).

ES 2 342 344 T3

Ia-197

p.f. = 173-175°C

5 RMN- ^1H (DMSO) δ ppm = 0,31 (m, 2H), 0,56 (m, 2H), 1,22 (d, 6H, J = 6,6), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,22 (m, 1H), 3,10 (m, 1H), 3,76 (d, 1H, J = 7,2), 6,58 (d, 1H, J = 8,1), 7,0-7,2 (m, 2H), 7,32 (s, 1H), 9,78 (s, 1H).

Ia-198

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p.f. = 233-235°C

15 RMN- ^1H (DMSO) δ ppm = 1,25 (d, 6H, J = 6,9), 1,2-2,0 (m, 16H), 2,19 (m, 1H), 3,10 (m, 2H), 4,73 (m, 1H), 6,80 (d, 2H, J = 8,7), 6,98 (d, 1H, J = 7,8), 7,45 (d, 2H, J = 8,7), 9,63 (s, 1H).

Ia-199

20

p.f. = 185-186°C

25 RMN- ^1H (DMSO) δ ppm = 1,22 (d, 6H, J = 6,9), 1,2-2,0 (m, 16H), 2,22 (m, 1H), 3,10 (m, 2H), 4,73 (m, 1H), 6,54 (m, 1H), 7,0-7,2 (m, 2H), 7,3 (s, 1H), 9,75 (s, 1H).

30 Ia-200

p.f. = 235-237°C

35 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,6 (m, 6H), 1,8-2,0 (m, 6H), 2,20 (m, 1H), 3,05 (m, 1H), 3,45 (m, 2H), 3,82 (m, 2H), 4,47 (m, 1H), 6,79 (d, 1H, J = 9,0), 6,89 (d, 2H, J = 9,0), 7,47 (d, 2H, J = 9,0), 9,66 (s, 1H).

Ia-201

40

p.f. = 300-301°C

45 RMN- ^1H (DMSO) δ ppm = 1,15 (d, 6H, J = 6,6 Hz), 1,26-1,56 (m, 4H), 1,27 (s, 9H), 1,82-2,03 (m, 4H), 2,23 (s, 3H), 2,37 (m, 1H), 3,06 (m, 1H), 4,07 (m, 1H), 6,81 (d, 1H, J = 8,7 Hz), 7,52 (d, 1H, J = 8,4 Hz), 7,62 (d, 1H, J = 8,4 Hz), 7,68 (s, 1H), 8,09 (d, 1H, J = 7,5 Hz), 9,22 (ancha s, 1H).

Ia-202

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p.f. = 269-270°C

55 RMN- ^1H (DMSO) δ ppm = 1,25-1,26 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,25 (m, 1H), 3,07 (m, 1H), 6,80 (d, 1H, J = 8,4 Hz), 7,11 (m, 1H), 7,42 (d, 1H, J = 3,6 Hz), 7,48 (m, 1H), 7,58 (d, 2H, J = 8,7 Hz), 7,64 (d, 2H, J = 8,4 Hz), 9,92 (ancha s, 1H).

Ia-203

60

p.f. = 271-273°C

65 RMN- ^1H (DMSO) δ ppm = 1,14-1,54 (m, 9H), 1,26 (s, 9H), 1,63-1,88 (m, 7H), 1,89-2,01 (m, 2H), 2,21 (m, 1H), 2,42 (m, 1H), 3,04 (m, 1H), 6,79 (d, 1H, J = 9,0 Hz), 7,11 (d, 2H, J = 8,4 Hz), 7,47 (d, 2H, J = 8,1 Hz), 9,70 (ancha s, 1H).

Ia-204

65

p.f. = 250-251°C

70 RMN- ^1H (DMSO) δ ppm = 1,22-1,39 (m, 2H), 1,22 (d, 6H, J = 6,6 Hz), 1,40-1,57 (m, 2H), 1,80-2,01 (m, 4H), 2,28 (m, 1H), 2,98-3,21 (m, 2H), 7,00 (d, 1H, J = 7,8 Hz), 7,34 (s, 1H), 7,75 (d, 2H, J = 9,0 Hz), 7,91 (d, 2H, J = 8,7 Hz), 8,17 (s, 1H), 10,10 (ancha s, 1H).

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Ia-205

p.f. = 239-240°C

5 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 5H), 2,08 (m, 2H), 3,05 (m, 1H), 3,80 (m, 4H), 4,95 (m, 1H), 6,79 (d, 1H, J = 8,7), 6,83 (d, 2H, J = 8,7), 7,48 (d, 2H, J = 8,7), 9,66 (s, 1H).

Ia-206

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p.f. = 236-238°C

15 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,2-1,7 (m, 8H), 1,8-2,0 (m, 6H), 2,18 (m, 1H), 3,04 (m, 1H), 3,3-3,6 (m, 2H), 3,85 (m, 3H), 6,80 (d, 1H, J = 9,0), 6,84 (d, 2H, J = 9,0), 7,47 (d, 2H, J = 9,0), 9,65 (s, 1H).

Ia-207

p.f. = 224-226°C

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25 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,24 (m, 1H), 2,39 (m, 2H), 3,06 (m, 1H), 3,50 (t, 2H, J = 7,5), 3,70 (t, 2H, J = 6,3), 6,78 (d, 1H, J = 6,6), 6,83 (m, 1H), 7,25 (m, 1H), 7,27 (m, 1H), 7,54 (s, 1H), 9,61 (s, 1H).

Ia-208

p.f. = 275-277°C

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35 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,3-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,22 (m, 1H), 2,38 (m, 2H), 3,07 (m, 1H), 3,47 (t, 2H, J = 6,9), 3,69 (t, 2H, J = 6,6), 6,80 (d, 1H, J = 8,7), 7,14 (d, 2H, J = 8,4), 7,58 (d, 2H, J = 8,4), 9,83 (s, 1H).

35 Ia-209

p.f. = 214-215°C

40 RMN- ^1H (DMSO) δ ppm = 1,26-1,56 (m, 4H), 1,27 (s, 9H), 1,80-2,03 (m, 4H), 2,25 (m, 1H), 3,06 (m, 1H), 6,59 (m, 1H), 6,81 (d, 1H, J = 8,4 Hz), 6,86 (d, 1H, J = 2,7 Hz), 7,28-7,40 (m, 2H), 7,47 (m, 1H), 7,75 (s, 1H), 8,01 (s, 1H), 9,91 (ancha s, 1H).

Ia-210

45

p.f. = 272-275°C

50 RMN- ^1H (DMSO) δ ppm = 1,31 (s, 9H), 6,59 (m, 1H), 6,87 (d, 1H, J = 3,3 Hz), 7,41 (d, 2H, J = 8,7 Hz), 7,68 (d, 2H, J = 8,7 Hz), 7,72 (m, 1H), 7,83 (d, 2H, J = 8,7 Hz), 7,90 (d, 2H, J = 8,7 Hz), 10,03 (ancha s, 1H), 10,22 (ancha s, 1H).

Ia-211

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p.f. = 251-255°C

60 RMN- ^1H (DMSO) δ ppm = 1,31 (s, 9H), 7,36 (s, 1H), 7,41 (d, 2H, J = 8,4 Hz), 7,91 (d, 2H, J = 8,4 Hz), 7,92-8,00 (m, 4H), 8,19 (s, 1H), 10,06 (ancha s, 1H), 10,38 (ancha s, 1H).

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Ia-212

p.f. = 241-244°C

65 RMN- ^1H (DMSO) δ ppm = 1,30 (s, 9H), 1,50-1,78 (m, 6H), 1,81-1,97 (m, 2H), 4,78 (m, 1H), 6,87 (d, 2H, J = 9,0 Hz), 7,38 (d, 2H, J = 8,7 Hz), 7,61 (d, 2H, J = 9,0 Hz), 7,87 (d, 2H, J = 8,7 Hz), 9,97 (ancha s, 1H), 9,99 (ancha s, 1H).

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Ia-213

p.f. = 283-286°C

5 RMN- ^1H (DMSO) δ ppm = 1,31 (s, 9H), 7,12 (d-d, 1H, J = 3,6 Hz, 5,1 Hz), 7,41 (d, 2H, J = 9,0 Hz), 7,46 (m, 1H), 7,50 (d-d, 1H, J = 1,2 Hz, 5,1 Hz), 7,64 (d, 2H, J = 8,7 Hz), 7,82 (d, 2H, J = 8,7 Hz), 7,90 (d, 2H, J = 9,3 Hz), 10,03 (ancha s, 1H), 10,22 (ancha s, 1H).

10 Ia-216

p.f. = 224-225°C

15 RMN- ^1H (CDCl_3) δ ppm = 1,22 (d, 6H, J = 6,9), 1,2-1,5 (m, 4H), 1,8-2,0 (m, 4H), 2,45 (m, 1H), 3,12 (m, 2H), 6,99 (d, 1H, J = 8,1), 8,15 (m, 1H), 8,27 (d, 1H, J = 9,0), 8,69 (s, 1H), 10,86 (s, 1H).

Ia-219

20 p.f. = 270-272°C

RMN- ^1H (DMSO) δ ppm = 1,28 (s, 9H), 1,34-1,51 (m, 2H), 1,80-1,92 (m, 2H), 2,83-2,97 (m, 2H), 3,32 (m, 1H), 3,99-4,12 (m, 2H), 6,92 (d, 1H, J = 8,7 Hz), 7,57 (d, 2H, J = 8,7 Hz), 7,68 (d, 2H, J = 9,0 Hz), 8,90 (ancha s, 1H).

25 Ia-220

p.f. = 187-189°C

30 RMN- ^1H (DMSO) δ ppm = 1,28 (s, 9H), 1,31-1,51 (m, 2H), 1,78-1,90 (m, 2H), 2,78-2,93 (m, 2H), 3,30 (m, 1H), 3,97-4,09 (m, 2H), 6,90 (d, 1H, J = 8,7 Hz), 7,06 (t, 2H, J = 9,0 Hz), 7,44 (d-d, 2H, J = 4,8 Hz, 9,0 Hz), 8,53 (ancha s, 1H).

35 Ia-221

p.f. = 260-262°C

40 RMN- ^1H (DMSO) δ ppm = 1,12-1,50 (m, 7H), 1,28 (s, 9H), 1,63-1,90 (m, 7H), 2,40 (m, 1H), 2,76-2,91 (m, 2H), 3,28 (m, 1H), 3,96-4,09 (m, 2H), 6,90 (d, 1H, J = 8,7 Hz), 7,06 (d, 2H, J = 8,4 Hz), 7,32 (d, 2H, J = 8,4 Hz), 8,40 (ancha s, 1H).

Ia-222

45 p.f. = 265-267°C

50 RMN- ^1H (DMSO) δ ppm = 1,23 (d, 6H, J = 6,6 Hz), 1,31-1,48 (m, 2H), 1,77-1,90 (m, 2H), 2,84-2,98 (m, 2H), 3,16 (m, 1H), 3,33 (m, 1H), 3,96-4,10 (m, 2H), 7,11 (d, 1H, J = 7,8 Hz), 7,57 (d, 2H, J = 8,7 Hz), 7,67 (d, 2H, J = 8,4 Hz), 8,90 (ancha s, 1H).

Ia-223

55 p.f. = 183-186°C

60 RMN- ^1H (DMSO) δ ppm = 1,23 (d, 6H, J = 6,9 Hz), 1,28-1,47 (m, 2H), 1,76-1,88 (m, 2H), 2,80-3,16 (m, 2H), 3,16 (m, 1H), 3,32 (m, 1H), 3,94-4,07 (m, 2H), 7,00-7,14 (m, 3H), 7,44 (d-d, 2H, J = 4,8 Hz, 9,0 Hz), 8,53 (ancha s, 1H).

Ia-224

p.f. = 232-234°C

65 RMN- ^1H (DMSO) δ ppm = 1,12-1,46 (m, 7H), 1,23 (d, 6H, J = 6,6 Hz), 1,63-1,87 (m, 7H), 2,40 (m, 1H), 2,78-2,93 (m, 2H), 3,15 (m, 1H), 3,31 (m, 1H), 3,94-4,07 (m, 2H), 7,06 (d, 2H, J = 8,4 Hz), 7,09 (d, 1H, J = 8,1 Hz), 7,32 (d, 2H, J = 8,4 Hz), 8,39 (ancha s, 1H).

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Ia-225

p.f. = 222-224°C

5 RMN- ^1H (DMSO) δ ppm = 1,28 (s, 9H), 1,30-1,61 (m, 4H), 1,77-1,98 (m, 4H), 2,66-2,90 (m, 2H), 3,28 (m, 1H), 3,40-3,50 (m, 2H), 3,79-3,88 (m, 2H), 3,96-4,08 (m, 2H), 4,44 (m, 1H), 6,85 (d, 2H, J = 9,0 Hz), 6,91 (d, 1H, J = 9,0 Hz), 7,31 (d, 2H, J = 9,3 Hz), 8,34 (ancha s, 1H).

10 Ia-226

p.f. = 194-195°C

15 RMN- ^1H ($\text{CDCl}_3/\text{DMSO}$) δ ppm = 1,39 (d, 6H, J = 7,2 Hz), 1,66 (quintet, 2H, J = 6,8 Hz), 1,87 (quintet, 2H, J = 7,7 Hz), 2,47 (t, 2H, J = 7,5 Hz), 3,11-3,22 (m, 1H), 3,21 (t, 2H, J = 6,2 Hz), 5,00 (ancha s, 1H), 7,35-7,56 (m, 5H), 7,86 (d, 1H, J = 8,4 Hz), 8,05 (dd, 1H, J = 1,8, 8,1 Hz), 8,20 (d, 1H, J = 1,8 Hz), 9,24 (s, 1H).

Ia-227

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p.f. = >300°C

25 RMN- ^1H (DMSO) δ ppm = 1,22 (d, 6H, J = 6,3 Hz), 1,20-1,40 (m, 4H), 1,74-2,10 (m, 4H), 2,20-2,40 (m, 1H), 2,39 (s, 3H), 3,00-3,30 (m, 2H), 6,25 (s, 1H), 6,99 (ancha s, 1H), 7,43-7,57 (m, 1H), 7,71 (d, 1H, J = 8,1 Hz), 7,76 (s, 1H), 10,27 (s, 1H).

Ia-228

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p.f. = 168-169°C

35 RMN- ^1H (DMSO) δ ppm = 1,26 (s, 9H), 1,49 (quintet, 2H, J = 7,5 Hz), 1,64 (quintet, 2H, J = 7,4 Hz), 2,38 (t, 2H, J = 7,2 Hz), 2,40 (s, 3H), 3,04 (q, 2H, J = 6,5 Hz), 6,25 (s, 1H), 6,89 (t, 1H, J = 6,0 Hz), 7,48 (dd, 1H, J = 1,8, 8,4 Hz), 7,71 (d, 1H, J = 8,4 Hz), 7,77 (d, 1H, J = 1,8 Hz), 10,33 (s, 1H).

Ia-229

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p.f. = 174-175°C

45 RMN- ^1H (DMSO) δ ppm = 1,21 (d, 6H, J = 6,6 Hz), 1,42-1,56 (m, 2H), 1,56-1,70 (m, 2H), 2,33-2,42 (m, 2H), 2,40 (s, 3H), 2,90-3,02 (m, 2H), 3,14 (septet, 1H, J = 6,5 Hz), 6,26 (s, 1H), 6,99 (ancha s, 1H), 7,48 (d, 1H, J = 8,4 Hz), 7,71 (d, 1H, J = 8,7 Hz), 7,77 (s, 1H), 10,33 (s, 1H).

Ia-230

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p.f. = 194-195°C

55 RMN- ^1H (DMSO) δ ppm = 0,86 (d, 6H, J = 6,9 Hz), 1,25-1,65 (m, 4H), 1,27 (s, 9H), 1,81-2,05 (m, 5H), 2,23-2,35 (m, 1H), 2,99-3,15 (m, 1H), 3,36 (d, 2H, J = 7,2 Hz), 6,80 (d, 1H, J = 8,4 Hz), 7,80 (d, 1H, J = 8,4 Hz), 7,87 (d, 1H, J = 8,4 Hz), 8,19 (s, 1H), 10,44 (s, 1H).

55 Ia-231

p.f. = 221-222°C

60 RMN- ^1H (DMSO) δ ppm = 0,86 (d, 6H, J = 6,9 Hz), 1,22-1,40 (m, 2H), 1,23 (d, 6H, J = 6,9 Hz), 1,40-1,58 (m, 2H), 1,82-2,04 (m, 5H), 2,22-2,37 (m, 1H), 3,00-3,16 (m, 1H), 3,15 (septet, 1H, J = 6,6 Hz), 3,36 (d, 2H, J = 7,5 Hz), 6,99 (d, 1H, J = 7,5 Hz), 7,80 (d, 1H, J = 8,4 Hz), 7,86 (d, 1H, J = 8,4 Hz), 8,19 (s, 1H), 10,45 (s, 1H).

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Ia-232

p.f. = 196-197°C

5 RMN- ^1H (CDCl_3) δ ppm = 0,93 (d, 6H, J = 6,6 Hz), 1,42 (s, 1H), 1,60-1,70 (m, 2H), 1,88 (quintet, 2H, J = 7,4 Hz), 2,02-2,20 (m, 1H), 2,46 (t, 2H, J = 7,7 Hz), 3,29 (q, 2H, J = 6,1 Hz), 3,48 (d, 2H, J = 7,8 Hz), 4,26 (t, 1H, J = 6,0 Hz), 7,76 (d, 1H, J = 8,1 Hz), 7,90 (dd, 1H, J = 1,8, 8,1 Hz), 8,07 (d, 1H, J = 1,5 Hz), 8,39 (s, 1H).

10 Ia-233

p. 151-152°C

15 RMN- ^1H (CDCl_3) δ ppm = 0,93 (d, 6H, J = 6,6 Hz), 1,40 (d, 6H, J = 6,6 Hz), 1,62-1,69 (m, 2H), 1,88 (quintet, 2H, J = 7,3 Hz), 2,03-2,16 (m, 1H), 2,47 (t, 2H, J = 7,5 Hz), 3,21 (septet, 1H, J = 6,8 Hz), 3,23 (q, 2H, J = 6,3 Hz), 3,48 (d, 2H, J = 7,5 Hz), 4,43 (t, 1H, J = 6,0 Hz), 7,76 (d, 1H, J = 8,4 Hz), 7,91 (dd, 1H, J = 1,8, 8,4 Hz), 8,06 (d, 1H, J = 1,8 Hz), 8,36 (s, 1H).

20 Ia-234

p.f. = 219-220°C

25 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,28 (s, 9H), 1,30-1,50 (m, 2H), 1,74-1,88 (m, 2H), 2,83 (t, 2H, J = 11,1 Hz), 3,20-3,32 (m, 1H), 3,94-4,07 (m, 2H), 5,94 (s, 2H), 6,77 (d, 1H, J = 8,8 Hz), 6,82 (dd, 1H, J = 1,8, 8,7 Hz), 6,89 (d, 1H, J = 8,7 Hz), 7,11 (d, 1H, J = 1,8 Hz), 8,38 (s, 1H).

Ia-235

30 p.f. = 280-282°C

35 RMN- ^1H ($\text{DMSO}-d_6$) δ ppm = 1,27 (s, 9H), 1,26-1,57 (m, 4H), 1,86-2,03 (m, 4H), 2,38-2,50 (m, 1H), 3,00-3,14 (m, 1H), 6,81 (d, 1H, J = 8,4 Hz), 7,29 (t, 1H, J = 8,4 Hz), 7,43 (t, 1H, J = 7,5 Hz), 7,73 (d, 1H, J = 8,4 Hz), 7,96 (d, 1H, J = 7,5 Hz), 12,27 (s, 1H).

Ia-237

40 p.f. = 204-205°C

45 RMN- ^1H (DMSO) δ ppm = 1,23 (d, 6H, J = 6,6 Hz), 1,29-1,61 (m, 4H), 1,75-1,98 (m, 4H), 2,78-2,92 (m, 2H), 3,15 (m, 1H), 3,29 (m, 1H), 3,38-3,51 (m, 2H), 3,78-3,89 (m, 2H), 3,94-4,06 (m, 2H), 4,44 (m, 1H), 6,85 (d, 2H, J = 9,0 Hz), 7,10 (d, 1H, J = 7,8 Hz), 7,31 (d, 2H, J = 9,3 Hz), 8,34 (ancha s, 1H).

Ia-238

p.f. = 128-130°C

50 RMN- ^1H (DMSO) δ ppm = 1,26 (s, 9H), 1,41-1,53 (m, 2H), 1,55-1,68 (m, 2H), 2,44 (t, 2H, J = 7,2 Hz), 2,98-3,07 (m, 2H), 6,90 (t, 1H, J = 6,0 Hz), 8,16 (d-d, 1H, J = 2,1 Hz, 8,7 Hz), 8,29 (d, 1H, J = 8,7 Hz), 8,70 (m, 1H), 10,91 (ancha s, 1H).

55 Ia-239

p.f. = 256-258°C

60 RMN- ^1H (DMSO) δ ppm = 1,26-1,53 (m, 4H), 1,26 (s, 9H), 1,76-2,00 (m, 4H), 2,23 (s, 3H), 2,39 (m, 1H), 3,04 (m, 1H), 6,80 (d, 1H, J = 8,7 Hz), 7,57 (d-d, 1H, J = 2,4 Hz, 8,4 Hz), 7,97 (d, 1H, J = 8,4 Hz), 8,12 (m, 1H), 10,26 (ancha s, 1H).

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Ia-240

p.f. = 288-290°C

5 RMN- ^1H (DMSO) δ ppm = 1,26-1,53 (m, 4H), 1,27 (s, 9H), 1,78-1,90 (m, 4H), 2,40 (m, 1H), 3,04 (m, 1H), 6,81 (d, 1H, J = 8,7 Hz), 7,07 (m, 1H), 7,75 (m, 1H), 8,07 (d, 1H, J = 8,4 Hz), 8,29 (m, 1H), 10,36 (ancha s, 1H).

Ia-241

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p.f. = 249-250°C

15 RMN- ^1H (DMSO) δ ppm = 1,28 (s, 9H), 1,34-1,50 (m, 2H), 1,79-1,90 (m, 2H), 2,74-2,98 (m, 2H), 3,32 (m, 1H), 4,02-4,14 (m, 2H), 6,91 (d, 1H, J = 8,4 Hz), 7,94 (d, 1H, J = 9,0 Hz), 8,04 (d-d, 1H, J = 2,1 Hz, 9,0 Hz), 8,60 (s, 1H), 9,76 (ancha s, 1H).

Ia-242

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p.f. = 250-252°C

25 RMN- ^1H (DMSO) δ ppm = 1,24 (s, 9H), 1,27 (s, 9H), 1,24-1,54 (m, 4H), 1,76-1,88 (m, 2H), 1,90-2,01 (m, 2H), 2,21 (m, 1H), 3,05 (m, 1H), 6,79 (d, 1H, J = 8,7 Hz), 6,88 (d, 2H, J = 9,0 Hz), 7,48 (d, 2H, J = 9,0 Hz), 9,72 (ancha s, 1H).

136-0290

p.f. = 250-252°C

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35 RMN- ^1H (DMSO) δ ppm = 1,15 (d, 6H, J = 6,6 Hz), 1,28 (s, 9H), 1,35-1,52 (m, 2H), 1,78-1,92 (m, 2H), 2,20 (s, 3H), 2,81-2,96 (m, 2H), 3,33 (m, 1H), 3,96-4,16 (m, 3H), 6,92 (d, 1H, J = 8,7 Hz), 7,27 (d, 1H, J = 8,1 Hz), 7,60 (m, 1H), 7,66 (m, 1H), 8,06 (d, 1H, J = 7,8 Hz), 8,14 (ancha s, 1H).

Ia-244

p.f. = 211-213°C

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45 RMN- ^1H (DMSO) δ ppm = 1,29 (s, 9H), 1,35-1,52 (m, 2H), 1,81-1,93 (m, 2H), 2,83-2,97 (m, 2H), 3,32 (m, 1H), 4,03-4,14 (m, 2H), 6,93 (d, 1H, J = 8,7 Hz), 7,55 (d-d, 1H, J = 2,1 Hz, 9,0 Hz), 7,94 (d, 1H, J = 9,0 Hz), 8,29 (d, 1H, J = 1,8 Hz), 8,78 (ancha s, 1H), 9,19 (s, 1H).

45 Ia-245

p.f. = 196-197°C

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55 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,2-1,6 (m, 6H), 1,8-2,0 (m, 6H), 2,23 (m, 1H), 3,05 (m, 1H), 3,73 (m, 4H), 4,99 (s, 1H), 6,79 (d, 1H, J = 8,7), 7,13 (d, 1H, J = 6,8), 7,22 (t, 1H, J = 6,8), 7,49 (d, 1H, J = 6,8), 7,72 (s, 1H), 9,78 (s, 1H).

Ia-246

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p.f. = 242-244°C

60 RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,2-1,5 (m, 4H), 1,65 (m, 4H), 1,8-2,0 (m, 4H), 2,23 (m, 1H), 2,71 (m, 1H), 3,06 (m, 1H), 3,43 (m, 2H), 3,93 (m, 2H), 6,79 (d, 1H, J = 8,7), 6,91 (d, 1H, J = 8,7), 7,20 (t, 1H, J = 7,5), 7,40 (d, 1H, J = 7,5), 7,53 (s, 1H), 9,76 (s, 1H).

Ia-247

65

p.f. = 242-245°C

RMN- ^1H (DMSO) δ ppm = 1,27 (s, 9H), 1,2-1,6 (m, 6H), 1,8-2,0 (m, 6H), 2,23 (m, 1H), 3,05 (m, 1H), 3,74 (m, 4H), 4,94 (ancha s, 1H), 6,79 (d, 1H, J = 8,7), 7,38 (d, 1H, J = 8,7), 7,52 (d, 1H, J = 8,7), 9,76 (s, 1H).

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Ia-248

p.f. = 272-274°C

5 RMN- ^1H (CDCl_3) δ ppm = 1,27 (s, 9H), 1,2-1,5 (m, 4H), 1,62 (m, 4H), 1,8-2,0 (m, 4H), 2,22 (m, 1H), 2,68 (m, 1H), 3,05 (m, 1H), 3,41 (m, 2H), 3,92 (m, 2H), 6,79 (d, 1H, $J = 9,0$), 7,15 (d, 2H, $J = 8,7$), 7,50 (d, 2H, $J = 8,7$), 9,73 (s, 1H).

10 Ia-249 p.f. = 174-176°C

Ia-250 p.f. = 255-257°C

Ia-252 p.f. = 249-251°C

15 Ia-253 p.f. = 120-121°C

Ia-254 p.f. = 236-237°C

20 Ia-255 p.f. = 172-174°C

Ia-256 p.f. = 257-259°C

Ia-257 p.f. = 179-180°C

25 Ia-258 p.f. = 227-229°C

Ia-259 p.f. = 135-136°C

30 Ensayo 1

Afinidad con el receptor NPY-Y5

35 Se clona la secuencia de cDNA que codifica al receptor NPY Y5 humano (WO 96/16542) en el vector de expresión pME18S (Takebe y col., Mol. Cell. Biol. 8, 8957). Se transfecta el vector de expresión obtenido en células hospedantes CHO empleando el reactivo Lipofect AMINA (marca registrada, Gibco BRL Co., Ltd.) con arreglo a las instrucciones del fabricante para obtener células que expresan de modo estable al receptor NPY Y5.

40 Las membranas preparadas con las anteriores células CHO que expresan al receptor NPY Y5, el compuesto de la presente invención y 30.000 cpm fr péptido YY [^{125}I] (60 pM de final concentración: Amersham) se incuban en el tampón de ensayo (tampón HEPES-Hanks 20 mM que contiene un 0,1% de albúmina de suero bovino, pH = 7,4) a 25°C durante 2 horas y después se filtra la mezcla con un filtro de vidrio GF/C tratado con polietilenoimina. Después se lava el filtro de vidrio con tampón Tris-HCl 50 mM (pH = 7,4) y se mide la radiactividad en el filtro con un contador gamma. Se detecta la fijación no específica en presencia de 200 nM de péptido YY. Se calcula la concentración inhibidora del 50% del compuesto de ensayo contra la fijación específica del péptido YY (valor IC_{50}) (Inui, A. y col., Endocrinology 131, 2090-2096, 1992). Los resultados se recogen en las tablas 1 y 2.

50 Los compuestos de la presente invención inhiben la fijación del péptido YY (homólogo de NPY) sobre los receptores NPY Y5. En otras palabras, los compuestos de la presente invención presentan afinidad con el receptor NPY Y5.

Ensayo 2

55 *Actividad inhibidora de la producción de cAMP en células CHO*

Después de incubar las células CHO cells que expresan al receptor NPY Y5 humano en presencia de isobutilmetilxantina 2,5 mM (SIGMA) a 37°C durante 20 min, se añade el compuesto de la presente invención y se incuba durante 5 min. Después se añaden NPY 50 nM y forskolina 10 μM (SIGMA) a las células y se incuban durante 30 min. Se finaliza la reacción por adición de HCl 1N, se determina la cantidad de cAMP en el líquido sobrenadante con un kit EIA (Amersham LIFE SCIENCE). Se considera la actividad inhibidora del NPY contra el cAMP estimulado con forskolina como el 100% y se calcula la concentración inhibidora del 50% (valor IC_{50}) del compuesto de la presente invención contra la actividad del NPY.

65 Los resultados se recogen en las tablas de 1 a 4.

TABLA I

Comp- uesto	fijación IC ₅₀ (nM)	cAMP IC ₅₀ (nM)
I-2	7.5	72
I-7	3	<10
I-11	1.3	5
I-18	4.4	29
I-20	7	21
I-22	8.6	51
I-24	9.6	71
I-26	0.6	2.6
I-41	6.8	38.2
I-44	1.0	13.4
I-45	1.2	27.9
I-46	0.8	10.5
I-47	0.6	14.9
I-49	0.4	8.1
I-50	0.3	8.4
I-53	4.1	21
I-55	9.0	40
I-57	4.8	47
I-58	0.8	85
I-60	0.69	18
I-61	0.26	5.8

I-62	0.58	16
I-63	1.3	50
I-64	2.2	80
I-65	1.8	72
I-66	1.6	30
I-67	2	17
I-69	3.8	13
I-72	2.3	2.1
I-75	0.55	3.4
I-76	0.61	6.5
I-77	1.8	28
I-79	0.89	25
I-83	0.61	29
I-84	1.3	35
I-86	3.4	100
I-87	0.66	21
I-90	2.8	50
I-92	7	61
I-101	3.9	38
I-102	1.7	14
I-106	6.4	29

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TABLA 2

I-109	1.2	3.2
I-110	4.3	13.6
I-111	1.8	6.1
I-114	7	30
I-116	1.2	11
I-120	1.4	4.8
I-123	1.8	168
I-126	0.6	13.2
I-127	1.4	30.4
I-128	1.3	10.2
I-129	2.1	174
I-130	1.1	42.5
I-131	1.1	34.8
I-132	2.2	30.4
I-133	0.9	21.1
I-134	0.5	10.0
I-135	0.7	22.0
I-136	2.8	-
I-137	1.4	68.2
I-138	1.0	18.6
I-139	0.41	7.6
I-140	0.48	8.9
I-141	0.42	7.4
I-142	0.49	28
I-143	3.5	44
I-144	3.4	52
I-146	2.3	20
I-147	7.1	63
I-149	0.83	15
I-150	0.17	5.2
I-151	0.17	2.6
I-152	0.88	46
I-153	1.7	29
I-154	1.1	11
I-156	0.81	17
I-160	0.61	8.8
I-161	0.49	3.1
I-162	1.7	32

I-163	2.3	83
I-164	0.71	5.9
I-165	0.44	47
I-166	0.37	9.7
I-167	0.72	39
I-168	2.1	32
I-171	2.4	71
I-172	0.91	36
I-187	0.68	13
I-191	1.1	11
I-196	1.4	6.8
I-197	6.7	38
I-198	7.2	33
I-199	4.8	31
I-202	6.7	67
I-204	1.0	6.3
I-205	2.9	17
I-206	5.9	54
I-207	4.6	23
I-210	1.1	13
I-212	0.67	7.5
I-213	0.44	4.0
Ia-1	4.8	31
Ia-3	9.2	150
Ia-4	1.4	15
Ia-5	1.6	43
Ia-6	2.4	23
Ia-8	2.9	34
Ia-9	0.94	11
Ia-10	0.47	2.7
Ia-11	0.64	7.2
Ia-12	0.94	5.5
Ia-13	1.5	3.3
Ia-14	4.8	28
Ia-16	0.1	-
Ia-17	0.1	1.9
Ia-20	4.9	100

TABLA 3

Ia-21	3.4	35
Ia-22	3.1	38
Ia-24	5.2	74
Ia-25	1.1	18
Ia-26	1.9	27
Ia-28	5.2	130
Ia-29	1	7.3
Ia-30	2.6	25
Ia-31	3.8	11
Ia-32	0.52	6.7
Ia-33	1.8	64
Ia-35	1.8	.
Ia-36	1.6	86
Ia-37	0.73	3.8
Ia-38	1	2.2
Ia-39	1.5	3.5
Ia-40	2.2	9.3
Ia-41	2.5	9
Ia-42	3.6	20
Ia-44	4.8	27
Ia-45	4.8	42
Ia-46	0.87	8.3
Ia-47	0.82	3.8
Ia-48	1.2	6.1
Ia-49	2.6	83
Ia-50	1.7	24
Ia-51	1.3	3.4
Ia-52	1.9	22
Ia-53	0.22	8.1
Ia-54	0.44	9
Ia-55	1.1	27
Ia-56	2.3	96
Ia-57	0.93	31
Ia-58	2.5	110
Ia-59	0.71	16
Ia-60	0.95	10
Ia-61	0.68	19
Ia-62	1.1	29
Ia-63	3.9	370
Ia-64	7.1	96
Ia-65	1.1	11

Ia-66	0.59	3.2
Ia-67	6.3	75
Ia-68	9.6	180
Ia-69	2.7	33
Ia-70	1.5	31
Ia-71	1.3	12
Ia-76	2.2	.
Ia-78	2	150
Ia-79	0.82	.
Ia-80	0.44	3.0
Ia-81	2.7	4.5
Ia-83	1.2	53
Ia-84	0.25	13
Ia-85	0.22	14
Ia-86	0.73	11
Ia-87	0.49	61
Ia-88	0.62	48
Ia-91	4	150
Ia-106	1.9	24
Ia-107	0.14	1.3
Ia-109	0.6	3.9
Ia-110	0.3	1.1
Ia-111	5.1	28
Ia-124	1.1	22
Ia-125	4.1	46
Ia-126	2.3	68
Ia-127	6.1	160
Ia-129	1.3	26
Ia-130	0.21	3
Ia-131	1.3	17
Ia-132	2.8	76
Ia-133	1.7	8.8
Ia-135	8.2	49
Ia-136	1.6	13
Ia-138	2.2	28
Ia-139	1.9	25
Ia-140	1	24
Ia-141	1	5.7
Ia-142	0.67	5.5

TABLA 4

Ia-143	7.8	39
Ia-144	8.1	57
Ia-145	7	86
Ia-146	9.9	79
Ia-158	0.71	1.7
Ia-160	0.76	140
Ia-161	1.9	18
Ia-163	7	400
Ia-164	0.38	4.7
Ia-168	0.95	13
Ia-169	1.9	88
Ia-173	6.9	140
Ia-174	0.35	5.4
Ia-175	0.49	9.2
Ia-176	0.63	5.1
Ia-177	0.49	7.5
Ia-178	4.6	16
Ia-179	0.89	19
Ia-180	1.9	11
Ia-181	7.7	25
Ia-182	0.24	2.1
Ia-183	1.9	7.8
Ia-184	0.38	-
Ia-185	0.94	4.4
Ia-186	0.93	12
Ia-187	1.9	60
Ia-188	0.75	28
Ia-189	3.5	95
Ia-190	0.34	1000
Ia-191	0.49	220
Ia-192	5.9	200
Ia-193	1.4	43
Ia-194	0.22	8.1
Ia-195	1.4	31
Ia-196	0.39	1.3
Ia-197	0.44	2.5
Ia-198	0.23	2.6
Ia-199	0.11	1.8
Ia-200	1.4	18
Ia-201	3.1	74
Ia-202	0.37	3.4

Ia-203	0.2	2.6
Ia-204	1	5.3
Ia-205	2.4	99
Ia-206	1.9	460
Ia-207	0.55	5.9
Ia-208	1.2	9.7
Ia-209	0.55	-
Ia-210	2.8	99
Ia-211	4.8	240
Ia-212	0.52	2.6
Ia-213	0.91	28
Ia-219	2.5	28
Ia-221	0.47	1.5
Ia-222	3.7	18
Ia-224	0.1	1.2
Ia-225	3.4	20
Ia-226	0.37	21
Ia-227	0.59	-
Ia-228	0.96	-
Ia-229	1.9	-
Ia-230	0.32	-
Ia-231	0.29	-
Ia-232	0.7	-
Ia-233	0.63	-
Ia-235	5.5	-
Ia-237	1.1	15
Ia-241	1.9	-
Ia-242	1.3	-
Ia-246	0.26	20
Ia-247	0.79	31
Ia-248	0.27	17
Ia-250	1.9	-
Ia-252	1.2	-
Ia-253	0.53	-
Ia-254	2.0	-
Ia-255	3.2	-
Ia-256	5.7	-
Ia-257	8.6	-
Ia-258	1.8	-

Nota: el Ia-178 es un compuesto de esta invención

Tal como se recoge en las tablas de 1 a 4, los compuestos de la presente invención tienen actividad antagonista contra el receptor NPY Y5.

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Ensayo 3

Empleando las membranas preparadas para la expresión de las células Y1 (neuroblastoma humano, SK-N-MC) y las membranas preparadas con células de expresión de Y2 (human neuroblastoma, SMS-KAN), se efectúa el ensayo de modo similar al descrito para el ensayo 1 con el fin de determinar la afinidad con el receptor NPY Y1 y con el y NPY Y2.

Los valores de fijación IC_{50} para los receptores NPY Y1 y NPY Y2 de los compuestos I-27, I-32, I-41, I-45, I-46, I-47, I-48, I-49, I-59, I-61, I-63, I-64, I-66, I-69, I-72, I-152, I-154, I-204, I-205, I-212, Ia-3, Ia-5, Ia-6, Ia-12, Ia-16, Ia-17, Ia-20, Ia-21, Ia-22, Ia-26, Ia-28, Ia-29, Ia-30, Ia-31, Ia-32, Ia-33, Ia-37, Ia-39, Ia-40, Ia-50, Ia-51, Ia-54, Ia-62, Ia-67, Ia-124, Ia-126, Ia-139, Ia-140, Ia-142, Ia-178, Ia-199 y Ia-200 son de 100.000 nM o mayores y cada compuesto tiene selectividad para el receptor NPY Y5.

Ejemplo de formulación 1

Tabletas

compuesto (I-1)	15 mg
almidón	15 mg
lactosa	15 mg
celulosa cristalina	19 mg
polivinilalcohol	3 mg
agua destilada	30 ml
estearato cálcico	3 mg

Se mezclan de modo uniforme todos los ingredientes anteriores, excepto el estearato cálcico, se tritura la mezcla, se granula y se seca para obtener gránulos de tamaño apropiado. A continuación se añade el estearato cálcico a los gránulos y se fabrican las tabletas por moldeo de compresión.

Ejemplo de formulación 2

Cápsulas

compuesto (I-2)	10 mg
estearato magnésico	10 mg
lactosa	80 mg

Se mezclan los ingredientes anteriores para preparar polvos o gránulos y estos se envasan en cápsulas.

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Ejemplo de formulación 3

Gránulos

5	compuesto (I-3)	30 g
	lactosa	265 g
10	estearato magnésico	5 g

15 Se mezclan uniformemente los ingredientes anteriores y se moldean por compresión, se tritura el material obtenido, se granula y se tamiza para obtener gránulos de un volumen adecuado.

Aplicabilidad industrial

20 Tal como se demuestra en los ensayos anteriores, los compuestos de la presente invención tienen actividad antagónica del receptor NPY Y5. Por consiguiente, los compuestos de la presente invención son útiles como agentes contra la obesidad y agentes anorécticos.

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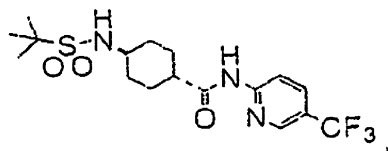
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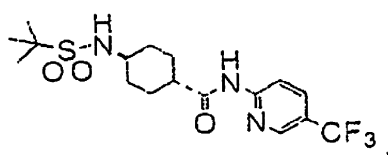
REIVINDICACIONES

1. Un compuesto de la fórmula:



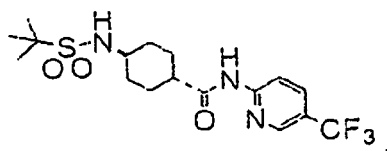
o una sal o un solvato farmacéuticamente aceptable del mismo.

2. Una composición farmacéutica que contiene un compuesto de la fórmula:



o una sal o un solvato farmacéuticamente aceptable del mismo.

3. Un compuesto de la fórmula:



o una sal o un solvato farmacéuticamente aceptable del mismo para utilizar en el tratamiento de la obesidad.