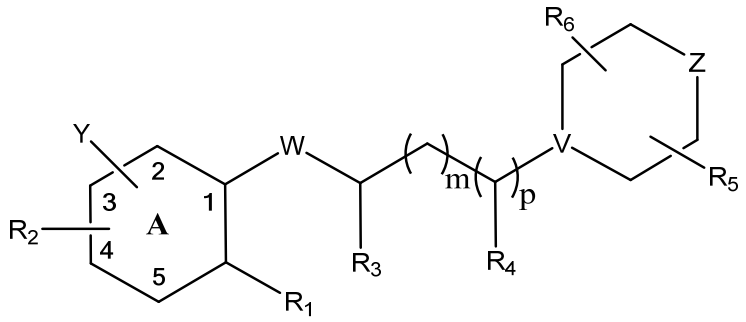
Claims

1. A non-medical method of modulating of transient receptor potential channel melastatin member 8 (TRPM8) comprising bringing the receptor into contact with a compound of formula (I), or a salt or solvate thereof



(I)

wherein

ring **A** represents a phenyl ring, cyclohexyl or cyclohexenyl ring;

R_1 is selected from hydrogen, C_1-C_6 alkyl and C_1-C_6 alkyloxy,

R_2 is connected to position 3, 4 or 5 of ring **A** and is selected from hydrogen, halogen, C_1-C_6 alkyl, C_1-C_6 alkyloxy, and C(O)O-C_1-C_3-alkyl,

R_3 is selected from hydrogen, C_1-C_6 alkyl, C_2-C_6 alkenyl, OH, and =O, and **R_4** is selected from hydrogen, C_1-C_6 alkyl, C_2-C_6 alkenyl, and OH, with the proviso that at least one of R_3 and R_4 is hydrogen, or

R_3 and R_1 form together with the carbon atoms to which they are attached a sixt membered ring system, and R_4 is hydrogen,

R_5 is selected from hydrogen, F and C_1-C_6 alkyl,

R_6 is selected from hydrogen, F and C_1-C_6 alkyl,

m is 0 or 1,

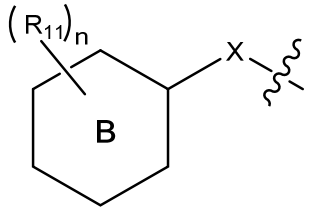
p is 0 or 1,

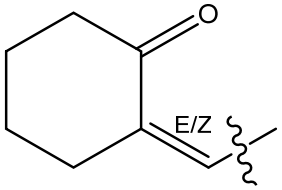
W is selected from –CH_2–, –O–, >C=O, –CH=, and >NR_{13} wherein R_{13} is selected from hydrogen and C_1-C_3 alkyl,

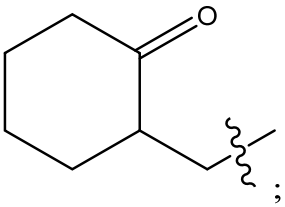
V is selected from >CH–, and >N–,

Z is selected from –O–,>S=O, >CHR_{12}, >NR_{12} wherein R_{12} is hydrogen, C_1-C_3 alkyl, OH, or CH_2OH,

Y is connected to position 2 or 3 of ring **A** and is selected from C_4-C_6 alkyl (e.g. iso-butyl),



,


, and


;

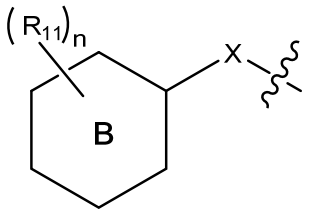
wherein

ring **B** represents a phenyl, thiophen, furan, or pyridine ring,

R_{11} is selected from CN, halogen, CH_2CN, NO_2, NH_2, CF_3, $C(O)OC_2H_5$, C_1-C_3 alkyl, C_1-C_3 alkyloxy, C_2-C_3 alkenyl, and OH, and n is an integer from 0 – 5, with the proviso that if n > 1, R_{11} can be the same or different,

X is selected from –CH_2–, –O–, >CH-CH_3, >CH=CH_2, and >CHOH.

2. A method according to claim 1 wherein Y is



wherein

ring **B** represents a phenyl, thiophen, furan, or pyridine ring,

R_{11} is selected from CN, halogen, CH_2CN, NO_2, NH_2, CF_3, $C(O)OC_2H_5$, C_1-C_3 alkyl, C_1-C_3 alkyloxy, C_2-C_3 alkenyl, and OH, and n is an integer from 0 – 5, with the proviso that if n > 1, R_{11} can be the same or different,

X is selected from –CH_2–, –O–, >CH-CH_3, >CH=CH_2, and >CHOH.

3. A method according to claim 1 or claim 2 wherin the ring **B** represents a phenyl ring.

4. A method according to claim 1 wherein the compound of formula (I) is selected from the group consisting of (1-(2-(2-benzyl-4-methylphenoxy)ethyl)piperidin-4-yl)methanol; (5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)phenyl)(phenyl)methanol; (E)-1-(2-((6-benzylidene-2,4-dimethylcyclohex-1-en-1-yl)oxy)ethyl)-4-methylpiperazine; (E)-1-(3-(2-benzyl-4-methylphenyl)allyl)-4-methylpiperazine; 1-(3-(2-benzyl-4-methylphenyl)propyl)-4-methylpiperazine; (E)-2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzylidene)cyclohexan-1-one; (E)-2-(5-methyl-2-(2-morpholinoethoxy)benzylidene)cyclohexan-1-one; 2-(3,5-dimethyl-2-(2-morpholinopropoxy)benzyl)benzonitrile; 2-(3,5-dimethyl-2-((1-morpholinopropan-2-yl)oxy)benzyl)benzonitrile; 1-((8-benzylchroman-2-yl)methyl)-4-methylpiperazine; 1-(2-((2-benzyl-4-methylcyclohexyl)oxy)ethyl)-4-methylpiperazine; 1-(2-((2-benzyl-4-methylcyclohexyl)oxy)ethyl)-4-methylpiperazine dihydrochloride; 1-(2-(2-((5-chlorothiophen-2-yl)methyl)-4-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-(2-bromobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-(2-chlorobenzyl)-4-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-(2-fluorobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-(2-iodobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-(3-bromobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine: 1-(2-(2-(3-chlorobenzyl)-4-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-(4-chlorobenzyl)-4-methylphenoxy)ethyl)-4-methylpiperazine hydrochloride; 1-(2-(2-(furan-2-ylmethyl)-4-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2,4-dimethyl-6-(2-(trifluoromethyl)benzyl)phenoxy)ethyl)-4-methylpiperazine; 1-(2-(2,4-dimethyl-6-(pyridin-2-ylmethyl)phenoxy)ethyl)-4-methylpiperazine; 1-(2-(2,4-dimethyl-6-(pyridin-3-ylmethyl)phenoxy)ethyl)-4-methylpiperazine; 1-(2-(2,4-dimethyl-6-(pyridin-4-ylmethyl)phenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-3,6-dimethylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-3-methoxyphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-3-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-4-(tert-butyl)-6-methoxyphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine dihydrochloride; 1-(2-(2-benzyl-4-chlorophenoxy)ethyl)-4-ethylpiperazine hydrochloride; 1-(2-(2-benzyl-4-

chlorophenoxy)ethyl)-4-methylpiperazine hydrochloride; 1-(2-(2-benzyl-4-ethylphenoxy)ethyl)-4-methylpiperazine hydrochloride; 1-(2-(2-benzyl-4-isopropylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-ethylpiperazine hydrochloride; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine 2,3-dihydroxysuccinate; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine 2-hydroxypropane-1,2,3-tricarboxylate; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine bis(2,2,2-trifluoroacetate); 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine bis(2-hydroxysuccinate); 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine bis(phosphate); 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine dimaleate; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine dimethanesulfonate; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine hydrochloride; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine oxalate; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine sulfate; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)piperazine; 1-(2-(2-benzyl-4-methylphenoxy)ethyl)piperidin-4-ol; 1-(2-(2-benzyl-4-methylphenoxy)propyl)-4-methylpiperazine; 1-(2-(2-benzyl-4-methylphenoxy)propyl)-4-methylpiperazine hydrochloride; 1-(2-(2-benzyl-6-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-benzylphenoxy)ethyl)-4-methylpiperazine hydrochloride; 1-(2-(2-isobutyl-4-methylphenoxy)ethyl)-4-methylpiperazine; 1-(2-(2-isobutyl-4-methylphenoxy)ethyl)-4-methylpiperazine dihydrochloride; 1-(2-benzyl-4-methylphenethyl)-4-methylpiperazine; 1-(2-benzyl-4-methylphenyl)-3-(4-methylpiperazin-1-yl)propan-2-ol; 1-(2-benzyl-4-methylphenyl)-3-(4-methylpiperazin-1-yl)propan-2-one; 1-(3-(2-benzyl-4-methylphenoxy)propyl)-4-methylpiperazine hydrochloride; 1-(3-(2-benzyl-4-methylphenyl)propyl)-4-methylpiperazine; 1-methyl-4-(2-(4-methyl-2-(1-phenylethyl)phenoxy)ethyl)piperazine; 1-methyl-4-(2-(4-methyl-2-(1-phenylvinyl)phenoxy)ethyl)piperazine; 1-methyl-4-(2-(4-methyl-2-(2-methylbenzyl)phenoxy)ethyl)piperazine; 1-methyl-4-(2-(4-methyl-2-(3-methylbenzyl)phenoxy)ethyl)piperazine; 1-methyl-4-(2-(4-methyl-2-(thiophen-2-ylmethyl)phenoxy)ethyl)piperazine hydrochloride 2-(2-(2-hydroxy-3-morpholinopropyl)-5-methylphenoxy)benzonitrile; 2-(2-(3,5-dimethyl-2-(2-

morpholinoethoxy)benzyl)phenyl)acetonitrile; 2-(2,4-dimethyl-5-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile; 2-(2,6-difluorobenzyl)-4-methyl-N-(2-morpholinoethyl)aniline; 2-(2,6-difluorobenzyl)-N,4,6-trimethyl-N-(2-morpholinoethyl)aniline; 2-(2,6-difluorobenzyl)-N,4-dimethyl-N-(2-morpholinoethyl)aniline; 2-(2-fluorobenzyl)-N,4,6-trimethyl-N-(2-morpholinoethyl)aniline; 2-(2-fluorobenzyl)-N,4-dimethyl-N-(2-morpholinoethyl)aniline; 2-(3,5-dimethyl-2-((1-(4-methylpiperazin-1-yl)propan-2-yl)oxy)benzyl)benzonitrile; 2-(3,5-dimethyl-2-((1-(4-methylpiperazin-1-yl)propan-2-yl)oxy)benzyl)benzonitrile hydrochloride; 2-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile; 2-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile hydrochloride; 2-(3,5-dimethyl-2-(2-(tetrahydro-2H-pyran-4-yl)ethoxy)benzyl)benzonitrile; 2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)-3-fluorobenzonitrile; 2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)aniline; 2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile; 2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile hydrochloride; 2-(3,5-dimethyl-2-(3-morpholinopropoxy)benzyl)benzonitrile; 2-(3,5-dimethyl-2-(3-morpholinopropyl)phenoxy)benzonitrile; 2-(3,5-dimethyl-2-(methyl(2-morpholinoethyl)amino)benzyl)benzonitrile; 2-(4-methyl-2-(3-(4-methylpiperazin-1-yl)propyl)phenoxy)benzonitrile; 2-(5-methyl-2-(2-(1-methylpiperidin-4-yl)ethoxy)benzyl)benzonitrile; 2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile; 2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile dihydrochloride; 2-(5-methyl-2-(2-morpholinoethoxy)benzyl)cyclohexan-1-one; 2-(5-methyl-2-(2-morpholinopropoxy)benzyl)benzonitrile; 2-(5-methyl-2-(3-(4-methylpiperazin-1-yl)propyl)phenoxy)benzonitrile; 2-(5-methyl-2-(3-(4-methylpiperazin-1-yl)propyl)phenoxy)benzonitrile hydrochloride; 2-benzyl-4-methyl-N-(2-(4-methylpiperazin-1-yl)ethyl)aniline; 2-benzyl-4-methylphenyl 2-(4-methylpiperazin-1-yl)acetate; 2-benzyl-N,4-dimethyl-N-(2-(4-methylpiperazin-1-yl)ethyl)aniline; 2-benzyl-N,4-dimethyl-N-(2-morpholinoethyl)aniline; 3-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile dihydrochloride; 3-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)aniline; 3-bromo-2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile; 3-chloro-2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile; 4-(1-(2-(2,6-difluorobenzyl)-4,6-

dimethylphenoxy)propan-2-yl)morpholine; 4-(2-(2-(1-(2-fluorophenyl)ethyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(1-(2-fluorophenyl)vinyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(2,4-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(2,5-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(2,6-dichlorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(2,6-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(2,6-difluorobenzyl)-4,6-dimethylphenoxy)propyl)morpholine; 4-(2-(2-(2,6-difluorobenzyl)-4-methylphenoxy)ethyl)morpholine; 4-(2-(2-(2-chlorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(2-fluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2-(3,5-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine; 4-(2-(2,4-dimethyl-5-((perfluorophenyl)methyl)phenoxy)ethyl)morpholine; 4-(2-(2,4-dimethyl-6-(2,4,5-trifluorobenzyl)phenoxy)ethyl)morpholine; 4-(2-(2,4-dimethyl-6-(2-nitrobenzyl)phenoxy)ethyl)morpholine; 4-(2-(2-benzyl-4-methylphenoxy)ethyl)-1,2,6-trimethylpiperazine; 4-(2-(2-benzyl-4-methylphenoxy)ethyl)morpholine hydrochloride; 4-(2-(2-benzyl-4-methylphenoxy)ethyl)thiomorpholine 1-oxide; 4-(2-(2-ethyl-6-(2-fluorobenzyl)-4-methylphenoxy)ethyl)morpholine; 4-(3-(2-(2-fluorophenoxy)-4,6-dimethylphenyl)propyl)morpholine; 4-methyl-2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)phenol; ethyl 4-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzoate dihydrochloride; and methyl 3-benzyl-4-(2-(4-methylpiperazin-1-yl)ethoxy)benzoate.

5. A non-medical method of inducing a cooling sensation in a human or animal comprising contacting the human or animal with a compound of formula (I), or a salt or solvate thereof, as defined in claim 1 to 3.

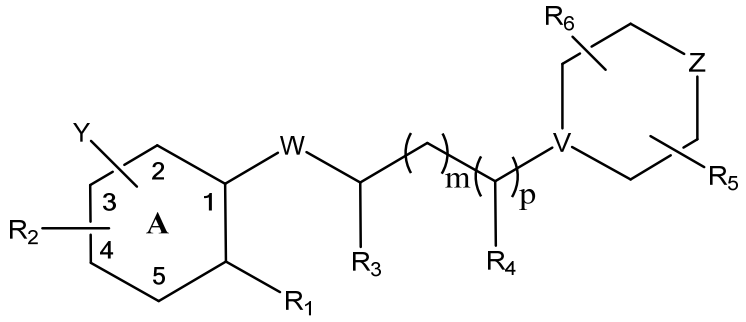
6. A non-medical method of achieving a cooling effect on the skin or mucosa comprising contacting the skin or mucosa with a product comprising one or more compounds of formula (I) as defined in claim 1 to 3.

7. A consumer product comprising one or more compounds of formula (I) as defined in claim 1 to 3.

8. The compound of formula (I) as defined in claim 1 to 3, for use in providing cooling sensation.

9. A composition comprising a cool sensation wherein the composition comprises a compound of formula (I) as defined in claim 1 to 3.

10. A compound of formula (I), a salt or solvate thereof



(I)

wherein

ring **A** represents a phenyl ring, cyclohexyl or cyclohexenyl ring;

R_1 is selected from hydrogen, C_1-C_6 alkyl and C_1-C_6 alkyloxy,

R_2 is connected to position 3, 4 or 5 of ring **A** and is selected from C_1-C_6 alkyl, C_1-C_6 alkyloxy, and C(O)O-C_1-C_3-alkyl,

R_3 is selected from hydrogen, C_1-C_6 alkyl, C_2-C_6 alkenyl, OH, and =O, and **R_4** is selected from hydrogen, C_1-C_6 alkyl, C_2-C_6 alkenyl, and OH, with the proviso that at least one of R_3 and R_4 is hydrogen, or

R_3 and R_1 form together with the carbon atoms to which they are attached a sixt membered ring system, and R_4 is hydrogen,

R_5 is selected from hydrogen, F and C_1-C_6 alkyl,

R_6 is selected from hydrogen, F and C_1-C_6 alkyl,

m is 0,

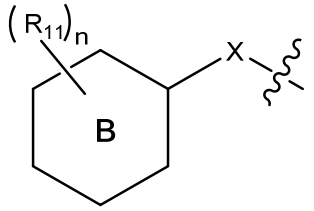
p is 1,

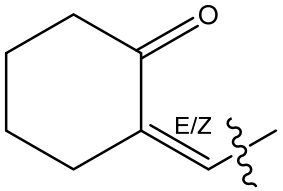
W is selected from $–CH_2–$, –O–, >C=O, –CH=, and $>NR_{13}$ wherein R_{13} is selected from hydrogen and C_1-C_3 alkyl,

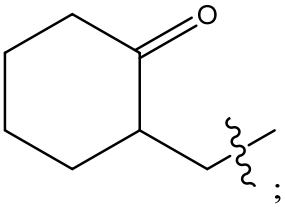
V is selected from >CH–, and >N–,

Z is selected from –O–,>S=O, >CHR$_{12}$, >NR$_{12}$ wherein R$_{12}$ is hydrogen, C$_1$-C$_3$ alkyl, OH, or CH$_2$OH,

Y is connected to position 2 or 3 of ring **A** and is selected from C$_4$-C$_6$ alkyl (e.g. iso-butyl),



,


, and


;

wherein

ring **B** represents a phenyl, thiophen, furan, or pyridine ring,

R$_{11}$ is selected from CN, halogen, CH$_2$CN, NO$_2$, NH$_2$, CF$_3$, C(O)OC$_2$H$_5$, C$_1$-C$_3$ alkyl, C$_1$-C$_3$ alkyloxy, C$_2$-C$_3$ alkenyl, and OH, and n is an integer from 0 – 5, with the proviso that if n > 1, R$_{11}$ can be the same or different,

X is selected from –CH$_2$–, –O–, >CH-CH$_3$, >CH=CH$_2$, and >CHOH,

with the proviso that compound of formula (I) is not 1-(3-(2-benzyl-4-methylphenyl)propyl)-4-methylpiperazine, and not 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine.

11. The compound of formula (I), a salt or solvate thereof according to claim 10, selected from (1-(2-(2-benzyl-4-methylphenoxy)ethyl)piperidin-4-yl)methanol, (5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)phenyl)(phenyl)methanol, (E)-1-(2-((6-benzylidene-2,4-dimethylcyclohex-1-en-1-yl)oxy)ethyl)-4-methylpiperazine, (E)-1-(3-(2-benzyl-4-methylphenyl)allyl)-4-methylpiperazine, (E)-2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzylidene)cyclohexan-1-one, (E)-2-(5-methyl-2-(2-morpholinoethoxy)benzylidene)cyclohexan-1-one, 2-(3,5-dimethyl-2-(2-morpholinopropoxy)benzyl)benzonitrile, 2-(3,5-dimethyl-2-((1-morpholinopropan-2-yl)oxy)benzyl)benzonitrile, 1-((8-benzylchroman-2-yl)methyl)-4-methylpiperazine, 1-(2-((2-benzyl-4-methylcyclohexyl)oxy)ethyl)-4-methylpiperazine,

1-(2-((2-benzyl-4-methylcyclohexyl)oxy)ethyl)-4-methylpiperazine dihydrochloride, 1-(2-(2-((5-chlorothiophen-2-yl)methyl)-4-methylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(2-bromobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(2-chlorobenzyl)-4-methylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(2-fluorobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(2-iodobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(3-bromobenzyl)-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(3-chlorobenzyl)-4-methylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-(4-chlorobenzyl)-4-methylphenoxy)ethyl)-4-methylpiperazine hydrochloride, 1-(2-(2-(furan-2-ylmethyl)-4-methylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2,4-dimethyl-6-(2-(trifluoromethyl)benzyl)phenoxy)ethyl)-4-methylpiperazine, 1-(2-(2,4-dimethyl-6-(pyridin-2-ylmethyl)phenoxy)ethyl)-4-methylpiperazine, 1-(2-(2,4-dimethyl-6-(pyridin-3-ylmethyl)phenoxy)ethyl)-4-methylpiperazine, 1-(2-(2,4-dimethyl-6-(pyridin-4-ylmethyl)phenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-3,6-dimethylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-3-methoxyphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-3-methylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-4-(tert-butyl)-6-methoxyphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-4,6-dimethylphenoxy)ethyl)-4-methylpiperazine dihydrochloride, 1-(2-(2-benzyl-4-chlorophenoxy)ethyl)-4-ethylpiperazine hydrochloride, 1-(2-(2-benzyl-4-chlorophenoxy)ethyl)-4-methylpiperazine hydrochloride, 1-(2-(2-benzyl-4-ethylphenoxy)ethyl)-4-methylpiperazine hydrochloride, 1-(2-(2-benzyl-4-isopropylphenoxy)ethyl)-4-methylpiperazine, 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-ethylpiperazine hydrochloride, 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine 2,3-dihydroxysuccinate, 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine 2-hydroxypropane-1,2,3-tricarboxylate, 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine bis(2,2,2-trifluoroacetate), 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine bis(2-hydroxysuccinate), 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine bis(phosphate), 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine dimaleate, 1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine dimethanesulfonate,

1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine hydrochloride,
1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine oxalate,
1-(2-(2-benzyl-4-methylphenoxy)ethyl)-4-methylpiperazine sulfate,
1-(2-(2-benzyl-4-methylphenoxy)ethyl)piperazine,
1-(2-(2-benzyl-4-methylphenoxy)ethyl)piperidin-4-ol,
1-(2-(2-benzyl-4-methylphenoxy)propyl)-4-methylpiperazine,
1-(2-(2-benzyl-4-methylphenoxy)propyl)-4-methylpiperazine hydrochloride,
1-(2-(2-benzyl-6-methylphenoxy)ethyl)-4-methylpiperazine,
1-(2-(2-benzylphenoxy)ethyl)-4-methylpiperazine hydrochloride,
1-(2-(2-isobutyl-4-methylphenoxy)ethyl)-4-methylpiperazine,
1-(2-(2-isobutyl-4-methylphenoxy)ethyl)-4-methylpiperazine dihydrochloride,
1-(2-benzyl-4-methylphenethyl)-4-methylpiperazine,
1-(2-benzyl-4-methylphenyl)-3-(4-methylpiperazin-1-yl)propan-2-ol,
1-(2-benzyl-4-methylphenyl)-3-(4-methylpiperazin-1-yl)propan-2-one,
1-(3-(2-benzyl-4-methylphenoxy)propyl)-4-methylpiperazine hydrochloride,
1-(3-(2-benzyl-4-methylphenyl)propyl)-4-methylpiperazine,
1-methyl-4-(2-(4-methyl-2-(1-phenylethyl)phenoxy)ethyl)piperazine,
1-methyl-4-(2-(4-methyl-2-(1-phenylvinyl)phenoxy)ethyl)piperazine,
1-methyl-4-(2-(4-methyl-2-(2-methylbenzyl)phenoxy)ethyl)piperazine,
1-methyl-4-(2-(4-methyl-2-(3-methylbenzyl)phenoxy)ethyl)piperazine,
1-methyl-4-(2-(4-methyl-2-(thiophen-2-ylmethyl)phenoxy)ethyl)piperazine hydrochloride, 2-(2-(2-hydroxy-3-morpholinopropyl)-5-methylphenoxy)benzonitrile, 2-(2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)phenyl)acetonitrile, 2-(2,4-dimethyl-5-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile, 2-(2,6-difluorobenzyl)-4-methyl-N-(2-morpholinoethyl)aniline, 2-(2,6-difluorobenzyl)-N,4,6-trimethyl-N-(2-morpholinoethyl)aniline, 2-(2,6-difluorobenzyl)-N,4-dimethyl-N-(2-morpholinoethyl)aniline, 2-(2-fluorobenzyl)-N,4,6-trimethyl-N-(2-morpholinoethyl)aniline, 2-(2-fluorobenzyl)-N,4-dimethyl-N-(2-morpholinoethyl)aniline, 2-(3,5-dimethyl-2-((1-(4-methylpiperazin-1-yl)propan-2-yl)oxy)benzyl)benzonitrile, 2-(3,5-dimethyl-2-((1-(4-methylpiperazin-1-yl)propan-2-yl)oxy)benzyl)benzonitrile hydrochloride, 2-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile, 2-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile hydrochloride,

2-(3,5-dimethyl-2-(2-(tetrahydro-2H-pyran-4-yl)ethoxy)benzyl)benzonitrile,
2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)-3-fluorobenzonitrile,
2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)aniline,
2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile,
2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile hydrochloride,
2-(3,5-dimethyl-2-(3-morpholinopropoxy)benzyl)benzonitrile,
2-(3,5-dimethyl-2-(3-morpholinopropyl)phenoxy)benzonitrile,
2-(3,5-dimethyl-2-(methyl(2-morpholinoethyl)amino)benzyl)benzonitrile,
2-(4-methyl-2-(3-(4-methylpiperazin-1-yl)propyl)phenoxy)benzonitrile,
2-(5-methyl-2-(2-(1-methylpiperidin-4-yl)ethoxy)benzyl)benzonitrile,
2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile,
2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile dihydrochloride, 2-(5-methyl-2-(2-morpholinoethoxy)benzyl)cyclohexan-1-one,
2-(5-methyl-2-(2-morpholinopropoxy)benzyl)benzonitrile,
2-(5-methyl-2-(3-(4-methylpiperazin-1-yl)propyl)phenoxy)benzonitrile,
2-(5-methyl-2-(3-(4-methylpiperazin-1-yl)propyl)phenoxy)benzonitrile hydrochloride, 2-benzyl-4-methyl-N-(2-(4-methylpiperazin-1-yl)ethyl)aniline,
2-benzyl-4-methylphenyl 2-(4-methylpiperazin-1-yl)acetate,
2-benzyl-N,4-dimethyl-N-(2-(4-methylpiperazin-1-yl)ethyl)aniline,
2-benzyl-N,4-dimethyl-N-(2-morpholinoethyl)aniline,
3-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzonitrile dihydrochloride, 3-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)aniline,
3-bromo-2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile,
3-chloro-2-(3,5-dimethyl-2-(2-morpholinoethoxy)benzyl)benzonitrile,
4-(1-(2-(2,6-difluorobenzyl)-4,6-dimethylphenoxy)propan-2-yl)morpholine,
4-(2-(2-(1-(2-fluorophenyl)ethyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(1-(2-fluorophenyl)vinyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(2,4-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(2,5-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(2,6-dichlorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(2,6-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(2,6-difluorobenzyl)-4,6-dimethylphenoxy)propyl)morpholine,
4-(2-(2-(2,6-difluorobenzyl)-4-methylphenoxy)ethyl)morpholine,
4-(2-(2-(2-chlorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,

4-(2-(2-(2-fluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2-(3,5-difluorobenzyl)-4,6-dimethylphenoxy)ethyl)morpholine,
4-(2-(2,4-dimethyl-5-((perfluorophenyl)methyl)phenoxy)ethyl)morpholine,
4-(2-(2,4-dimethyl-6-(2,4,5-trifluorobenzyl)phenoxy)ethyl)morpholine,
4-(2-(2,4-dimethyl-6-(2-nitrobenzyl)phenoxy)ethyl)morpholine,
4-(2-(2-benzyl-4-methylphenoxy)ethyl)-1,2,6-trimethylpiperazine,
4-(2-(2-benzyl-4-methylphenoxy)ethyl)morpholine hydrochloride,
4-(2-(2-benzyl-4-methylphenoxy)ethyl)thiomorpholine 1-oxide,
4-(2-(2-ethyl-6-(2-fluorobenzyl)-4-methylphenoxy)ethyl)morpholine,
4-(3-(2-(2-fluorophenoxy)-4,6-dimethylphenyl)propyl)morpholine,
4-methyl-2-(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)phenol,
ethyl 4-(3,5-dimethyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)benzyl)benzoate dihydrochloride, and methyl 3-benzyl-4-(2-(4-methylpiperazin-1-yl)ethoxy)benzoate.

12. A pharmaceutical composition comprising one or more compounds of formula (I) as defined in claim 10 and 11.

13. The compound of formula (I) as defined in claim 10 and 11 for use as medicament.