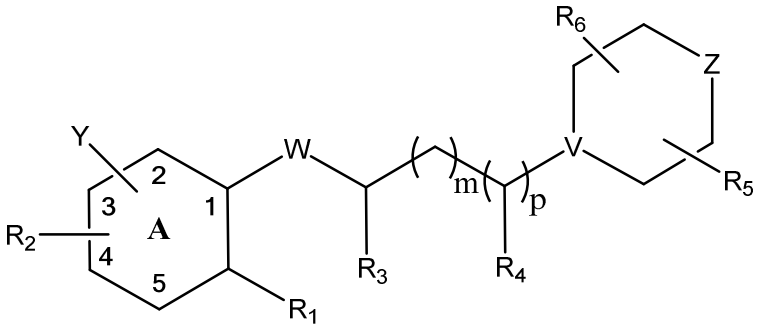
Claims

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,

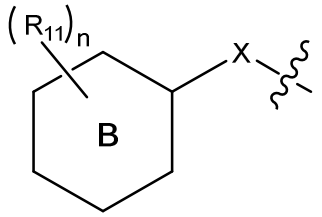
p is 0 or 1,

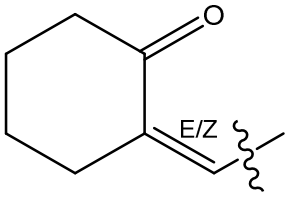
W is selected from –CH_2–, –O–, >C=O, –CH=, and >NR_{13} wherein R_{13} is selected from hydrogen and C_1-C_3 alkyl,

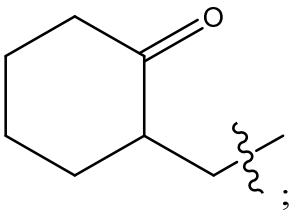
V is selected from >CH–, and >N–,

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


;

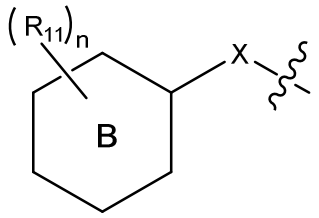
wherein

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, ~~>C=O,~~ 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.

~~2.~~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; ~~(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)phenyl)(phenyl)methanone;~~ (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-((1-hydroxypropan-2-~~

~~yl)oxy)-3,5-dimethylbenzyl)benzonitrile;~~ 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.

~~3.~~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.

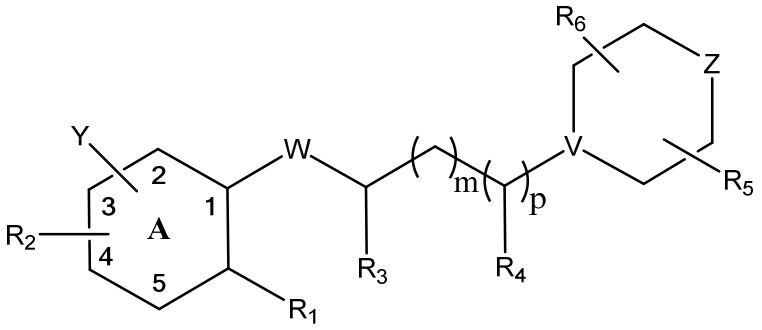
~~4.~~6. A non-medical method of achieving a cooling effect on the skin or mucosa comprising contacting the skin or mucosa with a product comprising one or more compounds of formula (I) as defined in claim 1 to 3.

~~5.~~7. A consumer product comprising one or more compounds of formula (I) as defined in claim 1 to 3.

~~6.~~8. The compound of formula (I) as defined in claim 1 to 3, for use in providing cooling sensation.

~~7.~~9. A composition comprising a cool sensation wherein the composition comprises a compound of formula (I) as defined in claim 1 to 3.

~~8.~~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,

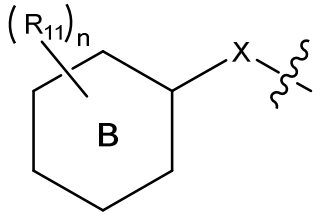
p is 1,

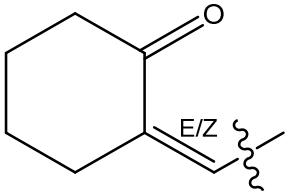
W is selected from –CH_2–, –O–, >C=O, –CH=, and >NR_{13} wherein R_{13} is selected from hydrogen and C_1-C_3 alkyl,

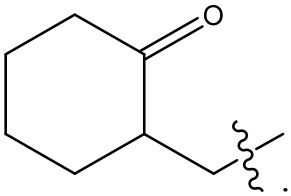
V is selected from >CH–, and >N–,

Z is selected from –O–,>S=O, >CHR_{12}, >NR_{12} wherein R_{12} is hydrogen, C_1-C_3 alkyl, OH, or CH_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, >$CH=CH_2$, ~~>C=O,~~ 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.

~~9.~~11. The compound of formula (I), a salt or solvate thereof according to claim ~~9~~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,
~~(5-methyl-2-(2-(4-methylpiperazin-1-yl)ethoxy)phenyl)(phenyl)methanone,~~
(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,~~
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-((1-hydroxypropan-2-yl)oxy)-3,5-dimethylbenzyl)benzonitrile,~~

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.

~~10.~~12. A pharmaceutical composition comprising one or more compounds of formula (I) as defined in claim ~~8~~10 and 11.

~~11.~~13. The compound of formula (I) as defined in claim ~~8~~ 10 and 11 for use as medicament.