3-Substituted 1-methyl-3-benzazepin-2-ones as 5-HT$_{2C}$ receptor agonists

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Table of Content

$^1$H NMR Spectra.................................................................2

$^{13}$C NMR Spectra..............................................................23

HPLC chromatograms of the most active compounds.............41
1-Methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (5)

8-Chloro-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (6)
3-Ethyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (7)

3-Buty-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (8)
3-Allyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (9)

3-Propyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (10)
3-Dodecyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (11)

3-(4-Bromobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (12)
3-(2,6-Difluorobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (13)

3-Isopropyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (14)
1-Methyl-3-pentyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (15)

3-Isopentyl-1-methyl-4,5-dihydro-1H-benzo[d]azepine-2(3H)-one (16)
1-Methyl-3-(3-propargyl)-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (17)

1-Methyl-3-(1-naphthylmethyl)-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (18)
3-(2-Chloro-4-fluoro)benzyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (19)

3-(sec Butyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (20)
1-Methyl-3-(4-methylbenzyl)-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (21)

3-(4-Isopropylbenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (22)
3-(4-Trifluoromethylbenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (23)

3-(3,5-Difluorobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (24)
3-(2-Chloro-6-fluoro)benzyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (25)

3-(2,5-(Bistrifluoro)benzyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (26)
3-(2-Cyanobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (27)

3-(3-Nitrobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (28)
3-(4-Chlorobenzyl)-1-methyl 4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (29)

3-(4-Methoxybenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (30)
3-(4-Fluorobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (31)

3-Cyclopropylmethyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (32)
3-(4-tert-Butylbenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (33)

3-Cyclohexylmethyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (34)
3-[(2-Cyano)-4-biphenyl]-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (35)

Methyl 4-(1-methyl-2-oxo-1,3,4,5-tetrahydrobenzo[d]azepinyl)methylbenzoate (36)
4-(1-Methyl-2-oxo-1,3,4,5-tetrahydrobenzo[d]azepinyl)methylbenzoic acid (37)

8-Chloro-3-ethyl-1-methyl- 4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (38)
3-Butyl-8-chloro-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (39)

3-Allyl-8-chloro-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (40)
8-Chloro-3-propyl-1-methyl- 4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (41)

8-Chloro-3-dodecyl -1-methyl -4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (42)
3-(4-Bromobenzyl)-8-chloro-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (43)

8-Chloro-3-(2,6-difluorobenzyl)-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (44)
3-(2-Acatamido)-1-methyl-4,5-dihydro-1H-benzo[d]azepine-2(3H)-one (48)
3-Ethyl-1-methyl-4,5-dihydro-1H-benzo[d]azepin-2(3H)-one (7)

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