Product Name: BRL 54443
CAS No.: 57477-39-1
Cat. No.: HY-13221
MWT: 230.31
Formula: C14H18N2O
Purity: >98%

Solubility: Soluble to 50 mM in DMSO

Mechanisms:
Pathways: GPCR/G protein; Target: 5-HT Receptor
Pathways: Neuronal Signaling; Target: 5-HT Receptor

Biological Activity:
BRL 54443 is a potent 5-HT1E/1F receptor agonist (pKi values are 8.7 and 8.9 respectively); displays > 30-fold selectivity over other 5-HT and dopamine receptors.

IC50 value: 8.7 (pKi, 5-HT1E); 8.9 (pKi, 5-HT1F)
Target: 5-HT1E/1F receptor

in vitro: BRL 54443 is a potent 5-ht1E/1F receptor agonist (pEC50 values are 8.5 and 8.6 respectively). Displays > 30-fold selectivity over other 5-HT and dopamine receptors (pKi values are 8.7, 8.9, 7.2, 6.9, 7.2, 5.9, 7.0, 6.5, < 6, < 6, 6.3 and 6.2 for human 5-HT1E, 1F, 1A, 1B, 1D, 2A, 2B, 2C, 4, 7, D2 and D3 receptors respectively). Induces 5-HT2A receptor-mediated mouse aortic contraction in vitro (pEC50 = 6.52). Active in vivo. In DG membranes, BRL54443, a 5-htr(1E) /5-Htr(1F) agonist, selectively stimulated 5-htr(1E) receptors and potently inhibited forskolin-dependent cAMP production (IC50 = 14 nM) [2]. The 5-HT(1E/1F) receptor ...

References:

Caution: Not fully tested. For research purposes only

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