



BRL-15572 (dihydrochloride)

Catalog No: tcsc0423

Product Description

| Available Sizes |
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| Size: 5mg |
| Size: 10mg |
| Size: 50mg |
| Specifications |
| CAS No: 193611-72-2 |
| Formula: $C_{25}^{H}_{29}^{Cl}_{3}^{N}_{2}^{O}$ |
| Pathway: Neuronal Signaling;GPCR/G Protein |
| Target: 5-HT Receptor;5-HT Receptor |
| Purity / Grade: >98% |
| Solubility: 10 mM in DMSO |
| Alternative Names: BRL-15572 |
| Observed Molecular Weight: 479.87 |





BRL-15572 2Hcl is a 5-HT1D receptor antagonist with pKi of 7.9, also shows a considerable affinity at 5-HT1A and 5-HT2B receptors, exhibiting 60-fold selectivity over 5-HT1B receptor.

IC50 Value: 7.9(pKi)

Target: 5-HT1D Receptor

in vitro: BRL-15572 displays high affinity and selectivity for h5-HT1D receptors. BRL-15572 has 60-fold higher affinity for h5-HT1D than 5-HT1B receptors. BRL-15572 binds to h5-HT1B and h5-HT1D receptors with pKB of less than 6 and 7.1, respectively. BRL-15572 stimulates [35S]GTP γ S binding in both cell lines, with potencies that correlated with their receptor binding affinities in both h5-HT1B and h5-HT1D receptor expressing cell lines. BRL-15572 reveals receptor binding affinities for 5-HT1A, 5-HT1B, 5-HT1E, 5-HT1F, 5-HT2A, 5-HT2B, 5-HT2C, 5-HT6 and 5-HT7 with pKi of 7.7, 6.1, 5.2, 6.0, 6.6, 7.4, 6.2, 5.9 and 6.3, respectively. In the h5-HT1D cell line, both BRL-15572 (1 μ M) shifts the 5-HT concentration response curve with pKB of 7.1, respectively. BRL-15572 does have moderately high affinity at human 5-HT1A and 5-HT2B receptors.

in vivo: In diabetic pithed rats, administration of the selective 5-HT1D receptor antagonist BRL-15572 (2 mg/kg) does not modify the decreased HR induced by vagal electrical stimulation. The effects of L-694,247 (50 μ g/kg), a selective agonist for non-rodent 5-HT1B and 5-HT1D receptors, on the vagally induced bradycardia are not apparent after pretreatment with BRL-15572.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!