BRL-15572 hydrochloride

Cat. No.: HY-13200A

CAS No.: 1173022-77-9

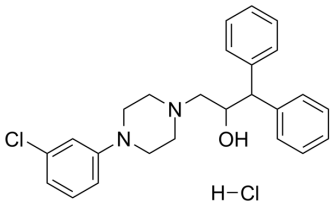
Molecular Formula: $C_{25}H_{28}Cl_2N_2O$

Molecular Weight: 443.41

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BRL-15572 hydrochloride is a selective antagonist of h5-HT1D, displays high affinity for h5-HT1D receptors. BRL-15572 hydrochloride could be useful pharmacological agents to characterise 5-HT1D receptor mediated responses[1].
IC_{50} & Target	5-HT_{1D} Receptor
In Vitro	BRL-15572 has 60-fold higher affinity for h5-HT1D (pK_i=7.9) than 5-HT1B receptors on human receptors expressed in CHO cells[1]. BRL-15572 (0.1 nM-10 μM) stimulates [^{35}S]GTPγS binding in CHO cell membranes expressing h5-HT1B and h5-HT1D receptors[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BRL-15572 prevents (-)-epicatechin-induced antinociception in the formalin test[2]. BRL-15572 (0.3-100.0 mg/kg; i.p.) is inactive and BRL-15572 (0.1-10 mg/kg; i.p.) has no effect on body temperature the guinea pig[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Price GW, et, al. SB-216641 and BRL-15572--compounds to pharmacologically discriminate h5-HT1B and h5-HT1D receptors. Naunyn Schmiedebergs Arch Pharmacol. 1997 Sep; 356(3): 312-20.

[2]. Geovanna NQ, et, al. Antinociceptive effect of (-)-epicatechin in inflammatory and neuropathic pain in rats. Behav Pharmacol. 2018 Apr; 29(2 and 3-Spec Issue): 270-279.

[3]. Hagan JJ, et, al. Stimulation of 5-HT1B receptors causes hypothermia in the guinea pig. Eur J Pharmacol. 1997 Jul 23; 331(2-3): 169-74.

Caution: Product has not been fully validated for medical applications. For research use only.

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