Eletriptan hydrobromide

Cat. No.: HY-A0010

CAS No.: 177834-92-3

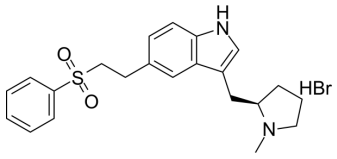
Molecular Formula: $C_{22}H_{27}BrN_2O_2S$

Molecular Weight: 463.43

Target: 5-HT Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (215.78 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1578 mL	10.7891 mL	21.5782 mL
	5 mM	0.4316 mL	2.1578 mL	4.3156 mL
	10 mM	0.2158 mL	1.0789 mL	2.1578 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.75 mg/mL (5.93 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.75 mg/mL (5.93 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.75 mg/mL (5.93 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Eletriptan hydrobromide (Eletriptan HBr) is a selective 5-HT1B and 5-HT1D receptor agonist with Ki of 0.92 nM and 3.14 nM, respectively.

IC_{50} & Target

5-HT_{1B} Receptor	5-HT_{1D} Receptor
0.92 nM (Ki)	3.14 nM (Ki)

REFERENCES

[1]. Napier C, et al. Characterisation of the 5-HT receptor binding profile of eletriptan and kinetics of [3H]eletriptan binding at human 5-HT1B and 5-HT1D receptors. Eur J Pharmacol, 1999, 368(2-3), 259-268.

[2]. MaassenVanDenBrink A, et al. Craniovascular selectivity of eletriptan and sumatriptan in human isolated blood vessels. Neurology, 2000, 55(10), 1524-1530.

[3]. Gupta P, et al. The in vivo pharmacological profile of eletriptan (UK-116,044): a potent and novel 5-HT(1B/1D) receptor agonist. Eur J Pharmacol, 2000, 398(1), 73-81.

[4]. Hoskin KL, et al. The 5-hydroxytryptamine1B/1D/1F receptor agonists eletriptan and naratriptan inhibit trigeminovascular input to the nucleus tractus solitarius in the cat. Brain Res, 2004, 998(1), 91-99.

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