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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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Telenzepine dihydrochloride

Cat. No.: HY-B1789A

CAS No.: 147416-96-4

Molecular Formula: $C_{19}H_{24}Cl_2N_4O_2S$

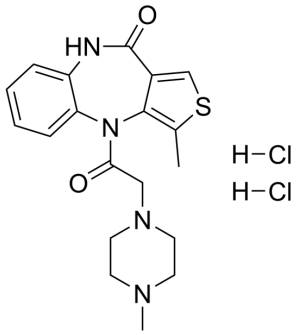
Molecular Weight: 443.39

Target: mAChR

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: -20°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

H_2O : 62.5 mg/mL (140.96 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Concentration / Solvent / Mass	1 mg	5 mg	10 mg
	1 mM	2.2554 mL	11.2768 mL	22.5535 mL
	5 mM	0.4511 mL	2.2554 mL	4.5107 mL
	10 mM	0.2255 mL	1.1277 mL	2.2554 mL

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

BIOLOGICAL ACTIVITY

Description

Telenzepine dihydrochloride is a selective and orally active muscarinic M1 receptor antagonist with a K_i of 0.94 nM. Telenzepine dihydrochloride inhibits gastric acid secretion and has antiulcer effects[1][2][3].

IC_{50} & Target

mAChR1

In Vitro

At submicromolar concentrations (100 nM), Telenzepine abolishes responses to either muscarine or the muscarinic component of the acetylcholine response. The excitatory effect of muscarine at postsynaptic M1 receptors is dose dependently inhibited by Telenzepine (0.1-1000 nM) at concentrations[2].

The threshold dose of Telenzepine as an antagonist of the muscarinic depolarization in AH/type 2 neurons is in the range of 0.1-1 nM. The IC_{50} of Telenzepine needed to abolish the response is 8.5 nM[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Intravenous Telenzepine potently inhibits gastric acid secretion in the Ghosh-Schild rat (carbachol-stimulated), the chronic fistula rat (basal secretion), or, both intravenously and orally, in the modified Shay rat[1].

Telenzepine (2.7 μmol/kg; orally) treatment shows significantly longer duration antiulcer effects in the modified Shay rat[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. R Riedel, et al. Comparison of the gastric antisecretory and antiulcer potencies of telenzepine, pirenzepine, ranitidine and cimetidine in the rat. Digestion. 1988;40(1):25-32.

[2]. F L Christofi, et al. Neuropharmacology of the muscarinic antagonist telenzepine in myenteric ganglia of the guinea-pig small intestine. Eur J Pharmacol. 1991 Apr 3;195(3):333-9.

[3]. M Galvan, et al. Interaction of telenzepine with muscarinic receptors in mammalian sympathetic ganglia. Eur J Pharmacol. 1989 Aug 11;167(1):1-10.

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

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