

Litoxetine HCl

Chemical Properties

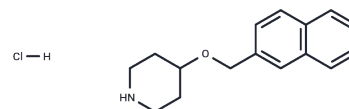
CAS No. :

Formula: C₁₆H₂₀ClNO

Molecular Weight: 277.79

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Litoxetine HCl is a selective 5-hydroxytryptamine (5-HT) reuptake inhibitor (SSRI) and mixed 5-hydroxytryptamine antagonist used in the treatment of urinary incontinence. Litoxetine HCl in the absence of antimuscarinic concentrations without antimuscarinic properties (10 nM-1 microM) caused concentration-dependent relaxation of isolated oesophageal muscle mucosa in rats, reducing carbachol tone by up to 37%. Higher concentrations of Litoxetine HCl (3 microM-300 microM) were associated with significant relaxation up to abolition of carbachol tone. The antiarrhythmic activity of Litoxetine HCl, previously demonstrated in the isolated guinea pig intestine, was exerted in the isolated rat oesophageal muscle mucosa at concentrations greater than 1 microM. The 5-HT-releasing effect of Litoxetine HCl could explain the potency of Litoxetine HCl on 5-HT-induced relaxation in untreated rat tissue, which was reversed by pCPA treatment.
Targets(IC50)	5-HT Receptor
In vitro	Litoxetine HCl (0.3-3 microM) antagonized the high- and low-potency phases of the 5-HT curve.[1] Litoxetine HCl (1 and 3 microM) responses to 5-MeOT were shifted to the right in a concentration-dependent manner.[1]
In vivo	Litoxetine HCl (twice daily for 4 days), a novel specific serotonin reuptake inhibitor.[2]

Solubility Information

Solubility	DMSO: 22.5 mg/mL (81 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5998 mL	17.9992 mL	35.9984 mL
5 mM	0.720 mL	3.5998 mL	7.1997 mL
10 mM	0.360 mL	1.7999 mL	3.5998 mL
50 mM	0.072 mL	0.360 mL	0.720 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lucchelli A, et al. The interaction of antidepressant drugs with central and peripheral (enteric) 5-HT₃ and 5-HT₄ receptors. Br J Pharmacol. 1995 ; 114(5):1017-1025.

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