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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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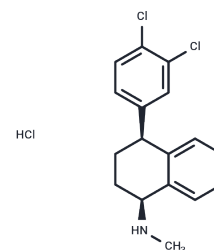
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Sertraline hydrochloride

Chemical Properties

CAS No. :	79559-97-0
Formula:	C ₁₇ H ₁₈ Cl ₃ N
Molecular Weight:	342.691
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Sertraline hydrochloride (Sertraline HCl) is a selective serotonin uptake inhibitor that is used in the treatment of depression.
Targets(IC50)	5-HT Receptor,Serotonin Transporter
In vitro	Sertraline HCl significantly enhances locomotor activity in mice during the antidepressant Porsolt forced swim test. Intraperitoneal injection of 32 µM/kg Sertraline HCl inhibits more than 50% of 5-hydroxytryptamine uptake by rat striatal synaptosomes. Sertraline HCl reverses 5-hydroxytryptamine depletion caused by PCA, proving to be six times more effective than chlorpromazine and sixty times more effective than amitriptyline. Acute repetitive administration of Sertraline reduces the serotonin content in whole blood. Chronic administration of Sertraline HCl in rats decreases the binding of [3H] dihydroalprenolol to cortical membranes and the cyclic AMP response to norepinephrine in the limbic forebrain adenylate cyclase.
In vivo	Sertraline is more effective than fluvoxamine, zimelidine, norzimelidine, fluoxetine, or clomipramine in preferentially inhibiting the uptake of 5-HT (serotonin), with comparatively weaker inhibition of NE (norepinephrine) absorption. However, sertraline exhibits lower selectivity than these agents in blocking the uptake of 5-HT relative to DA (dopamine).

Solubility Information

Solubility	DMSO: 60 mg/mL (175.08 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	2.9181 mL	14.5904 mL	29.1809 mL
5 mM	0.5836 mL	2.9181 mL	5.8362 mL
10 mM	0.2918 mL	1.459 mL	2.9181 mL
50 mM	0.0584 mL	0.2918 mL	0.5836 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

Koe BK, et al. J Pharmacol Exp Ther, 1983, 226(3), 686-700.

Qiu M, Li Z, Chen Y, et al. Tolcapone Potently Inhibits Seminal Amyloid Fibrils Formation and Blocks Entry of Ebola

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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