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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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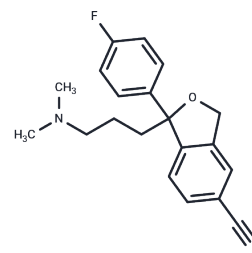
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Citalopram

Chemical Properties

CAS No. :	59729-33-8
Formula:	C ₂₀ H ₂₁ FN ₂ O
Molecular Weight:	324.39
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Citalopram (Lu 10-171) is an orally active, selective serotonin reuptake inhibitor (SSRI), a selective 5-hydroxytryptamine reuptake inhibitor, and a racemic mixture of the S(+)-enantiomer (Escitalopram) and the R(-)-enantiomer. Citalopram exhibits antidepressant activity and enhances serotonergic neurotransmission. It can be used to study Alzheimer's disease.
Targets(IC ₅₀)	5-HT Receptor
In vitro	Citalopram exhibits concentration-dependent cytotoxicity when applied at concentrations ranging from 25 to 175 μ M for 24 hours[4]. Specifically, at a concentration of 100 μ M for 24 hours, Citalopram strongly downregulates the expression of MYBL2, BIRC5, BARD1, AURKA, CCNA2, and CCNE1 in B104 cells[4].
In vivo	Administered via intraperitoneal injection at doses ranging from 5 to 40 mg/kg, Citalopram reduces immobility time in DBA/2J mice but does not elicit a similar effect in C57BL/6J mice[3].

Solubility Information

Solubility	DMSO: 40 mg/mL (123.31 mM), Sonication is recommended. (< 1 mg/mL refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0827 mL	15.4135 mL	30.8271 mL
5 mM	0.6165 mL	3.0827 mL	6.1654 mL
10 mM	0.3083 mL	1.5414 mL	3.0827 mL
50 mM	0.0617 mL	0.3083 mL	0.6165 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

Carlsson B, et al. Enantioselective analysis of citalopram and escitalopram in postmortem blood together with genotyping for CYP2D6 and CYP2C19. J Anal Toxicol. 2009;33(2):65-76.

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