

Escitalopram

Chemical Properties

CAS No. : 128196-01-0

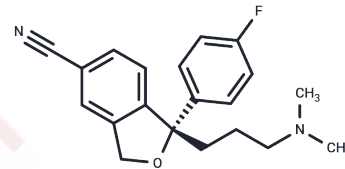
Formula: C₂₀H₂₁FN₂O

Molecular Weight: 324.39

Store at low temperature

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

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Escitalopram (Seroplex) is a furancarboxamide that is one of the SEROTONIN UPTAKE INHIBITORS used as an antidepressant. The drug is also effective in reducing ethanol uptake in alcoholics and is used in depressed patients who also suffer from tardive dyskinesia in preference to tricyclic antidepressants, which aggravate this condition.
Targets(IC50)	5-HT Receptor, Adrenergic Receptor, AChR, Norepinephrine, Histamine Receptor, Dopamine Receptor, Serotonin Transporter

Solubility Information

Solubility	DMSO: 250 mg/mL (770.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.17 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Owens JM, et al. *Encephale*. 2002 Jul-Aug;28(4):350-5.

Shi T S, Li W Y, Chen Y M, et al. The antidepressant-like effects of escitalopram in mice require salt-inducible kinase 1 and CREB-regulated transcription co-activator 1 in the paraventricular nucleus of the hypothalamus. *Journal of Affective Disorders*. 2023

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