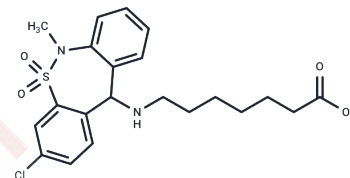


Tianeptine

Chemical Properties

CAS No. : 72797-41-2
 Formula: C₂₁H₂₅ClN₂O₄S
 Molecular Weight: 436.95
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Tianeptine (Tianeptine sodium) is a selective 5-HT uptake facilitator in vitro and in vivo.
Targets(IC50)	MMP,NF-κB,5-HT Receptor,Opioid Receptor,Akt,iGluR,PI3K
In vivo	tianeptine pretreatment upon corticosterone release and body weight loss following L-5-hydroxytryptophan (5-HTP) administration in conscious rats.?Administration of 5-HTP (20 mg/kg i.v.) increased plasma corticosterone levels to a similar extent in rats pretreated either with saline or tianeptine (10 mg/kg i.p., 60 min beforehand).?Besides, prior administration of benserazide (50 mg/kg i.p., 30 min beforehand), an inhibitor of peripheral aromatic L-amino acid decarboxylase, prevented 5-HTP-induced corticosterone release in both saline- and tianeptine-pretreated rats.?However, combined administration of benserazide and 5-HTP decreased overnight body weight in saline-, but not in tianeptine-pretreated rats.?These results suggest that tianeptine preferentially activates 5-HT reuptake in central serotonergic neurones.

Solubility Information

Solubility	DMSO: 55 mg/mL (125.87 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: 1 mg/mL (2.29 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	2.2886 mL	11.443 mL	22.8859 mL
5 mM	0.4577 mL	2.2886 mL	4.5772 mL
10 mM	0.2289 mL	1.1443 mL	2.2886 mL
50 mM	0.0458 mL	0.2289 mL	0.4577 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

Broqua P , Baudrie, Véronique, Chaoulhoff F . Differential effects of the novel antidepressant tianeptine on l-5-hydroxytryptophan (5-HTP)-elicited corticosterone release and body weight loss[J]. European Neuropsychopharmacology, 1992, 2(2):115-120.

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