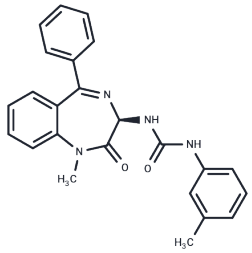
Data Sheet (Cat.No.T22895)

TargetMol

L-365260

Chemical Properties



CAS No. : 118101-09-0

Formula: C24H22N4O2

Molecular Weight: 398.46

Storage: Store at low temperature
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	L-365260 is an orally available, selective and potent nonpeptide gastrin and cerebral cholecystokinin receptor (CCK-B) antagonist.L-365260 inhibits CCK-8S-induced increase in [Ca2+]i, blocks stress-induced hypersensitivity in viscera, and blocks the anti-exploratory effect of CCK-4.L-365260 has been used in the study of neurological Ojibwa and endocrine diseases.
Targets(IC50)	Cholecystokinin Receptor
In vitro	L-365260 is a compound with high affinity for CCK-B receptors in the brains of various species, which significantly attenuates CCK8S- and CCK4-mediated neuronal depolarization, and has lower affinity for CCK-B and gastrin receptors in dog tissues[1].
In vivo	In male Sprague-Dawley rats (300-350 g), L-365260 (0.01, 0.05, 0.1, 0.2, 0.75, 1.0, 10.0 mg/kg; subcutaneous injection) enhances the analgesic effects[3].

Solubility Information

Solubility	Ethanol: <39.85 mg/mL,Sonication is recommended. DMSO: 80 mg/mL (200.77 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: 3.3 mg/mL (8.28 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5097 mL	12.5483 mL	25.0966 mL
5 mM	0.5019 mL	2.5097 mL	5.0193 mL
10 mM	0.251 mL	1.2548 mL	2.5097 mL
50 mM	0.0502 mL	0.251 mL	0.5019 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

Lotti VJ, et al. A new potent and selective non-peptide gastrin antagonist and brain cholecystokinin receptor (CCK-B) ligand: L-365,260. Eur J Pharmacol. 1989 Mar 21;162(2):273-80.
Chung L, et al. Cholecystokinin action on layer 6b neurons in somatosensory cortex. Brain Res. 2009 Jul 28;1282:10-9.
Dourish CT, et al. The selective CCK-B receptor antagonist L-365,260 enhances morphine analgesia and prevents morphine tolerance in the rat. Eur J Pharmacol. 1990 Jan 25;176(1):35-44.