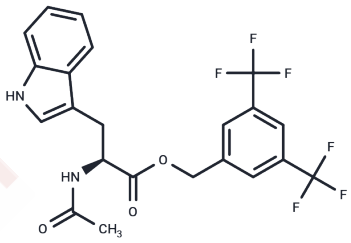
Data Sheet (Cat.No.T8235)

TargetMol

L-732138

Chemical Properties



CAS No. : 148451-96-1

Formula: C22H18F6N2O3

Molecular Weight: 472.38

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	L-732138 is a potent and competitive antagonist of neurokinin-1 (NK-1) receptor(IC50 : 2.3 nM)
Targets(IC50)	Neurokinin receptor
In vitro	L-732,138 against three human melanoma cell lines (COLO 858, MEL HO, COLO 679).?L-732,138 elicits cell growth inhibition in a concentration dependent manner in the melanoma cells studied.?Moreover, L-732,138 blocks SP mitogen stimulation.?The specific antitumor action of L-732,138 occurred through the NK-1 receptor and melanoma cell death was by apoptosis[1].
In vivo	L-732138?Abolished the vagally-induced plasma leakage in tracheobronchial tissues, and dose-dependently inhibited the LPS enhanced vagally-induced plasma exudation in traceobronchial tissues[2].
Cell Research	Cell Line:COLO 858, MEL HO and COLO 679 cells. Concentration:0 μM, 20 μM, 40 μM, 60 μM, 80 μM, 100 μM. Incubation Time:First doubling time[1].
Animal Research	Animal Model:Male Dunkin-Hartley guinea-pigs (350-500 g) injected with lipopolysaccharide (LPS)[3].Dosage:10-4 mol/kg ,10-3 mol/kg and 10-2 mol/kg. Administration:Intravenous injection; for 15 minutes[2]

Solubility Information

Solubility	DMSO: 4.73 mg/mL (10.01 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 (2.12 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	2.1169 mL	10.5847 mL	21.1694 mL
5 mM	0.4234 mL	2.1169 mL	4.2339 mL
10 mM	0.2117 mL	1.0585 mL	2.1169 mL
50 mM	0.0423 mL	0.2117 mL	0.4234 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

Muñoz M, et al. The NK-1 Receptor Antagonist L-732,138 Induces Apoptosis and Counteracts Substance P-Related Mitogenesis in Human Melanoma Cell Lines. Cancers (Basel). 2010 Apr 20;2(2):611-23.
2 .Kuo HP, et al. Lipopolysaccharide enhances neurogenic plasma exudation in guinea-pig airways. Br J Pharmacol. 1998 Oct;125(4):711-6.