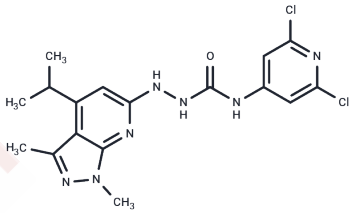
Data Sheet (Cat.No.T15629)

TargetMol

JTE-013

Chemical Properties



CAS No. : 383150-41-2

Formula: C17H19Cl2N7O

Molecular Weight: 408.29

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	JTE-013 is an effective and specific antagonist of S1P2. JTE-013 suppresses the specific binding of radiolabeled S1P to human and rat S1P2 (IC50s: 17 nM and 22 nM, respectively).
Targets(IC50)	Apoptosis,LPL Receptor,S1P Receptor
In vitro	JTE-013 is a S1P2 antagonist. JTE-013 (50-200 μM;?1-3 days) decreased cell viability.?JTE-013 shows 4.2% inhibition of S1P3 and does not antagonize S1P1 at concentrations up to 10 μM.?JTE-013 (10-1000 nM;?30 mins) reverses S1P-induced Akt inhibition and inhibits S1P-induced ERK activation.
In vivo	JTE-013 (gavage;?30 mg/kg daily for 14 consecutive days) decreases tumor size and tumor weight.?the modification of JTE-013 to produce the AB1 compound improved potency, intravenous pharmacokinetics, cellular activity, and antitumor activity in NB and may have enhanced clinical and experimental applicability.

Solubility Information

Solubility	DMSO: 250 mg/mL (612.31 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 (8.08 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	2.4492 mL	12.2462 mL	24.4924 mL
5 mM	0.4898 mL	2.4492 mL	4.8985 mL
10 mM	0.2449 mL	1.2246 mL	2.4492 mL
50 mM	0.049 mL	0.2449 mL	0.4898 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

Li MH, et al. Antitumor Activity of a Novel Sphingosine-1-Phosphate 2 Antagonist, AB1, in Neuroblastoma. J Pharmacol Exp Ther. 2015 Sep;354(3):261-8.