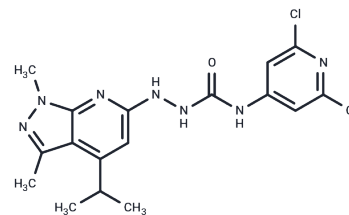


JTE-013

Chemical Properties

CAS No. : 383150-41-2
Formula: C₁₇H₁₉Cl₂N₇O
Molecular Weight: 408.29
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	JTE-013 is an effective and specific antagonist of S1P ₂ . JTE-013 suppresses the specific binding of radiolabeled S1P to human and rat S1P ₂ (IC ₅₀ s: 17 nM and 22 nM, respectively).
Targets(IC ₅₀)	Apoptosis,S1P Receptor,LPL Receptor
In vitro	JTE-013 is a S1P ₂ antagonist. JTE-013 (50-200 μM;?1-3 days) decreased cell viability. JTE-013 shows 4.2% inhibition of S1P ₃ and does not antagonize S1P ₁ 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: 100 mg/mL (244.92 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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