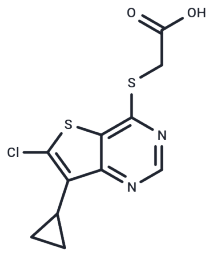
Data Sheet (Cat.No.T38776)

TargetMol
YOUR TARGET MOLECULES

LP-922056

Chemical Properties



CAS No. : 1365060-22-5

Formula: C11H9ClN2O2S2

Molecular Weight: 300.78

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	LP-922056 is an inhibitor of Notum Pectinacetylesterase with EC50 values of 21 nM, 55 nM for human and mouse, respectively.
Targets(IC50)	Wnt/beta-catenin
In vitro	LP-922056 can be used as a complementary chemical tool for exploring the role of Notum in Wnt signaling[2].
In vivo	In mice, LP-922056 (3, 10, 30 mg/kg; gavage) significantly increases midshaft femur cortical bone thickness. LP-922056 (10 mg/kg) achieved high Cmax of 129 μM and AUC of 1533 μM•h while volume of distribution is 0.13 L/kg and low clearance is 0.49 mL/min•kg[1]. LP-922056 (10mg/kg; oral) increases cortical bone thickness and strength in the midshaft femur, bone mass in the femoral neck, and vertebral body cortical shell[2].

Solubility Information

Solubility	DMSO: 120 mg/mL (398.96 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3247 mL	16.6234 mL	33.2469 mL
5 mM	0.6649 mL	3.3247 mL	6.6494 mL
10 mM	0.3325 mL	1.6623 mL	3.3247 mL
50 mM	0.0665 mL	0.3325 mL	0.6649 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

James E Tarver Jr, et al. Stimulation of cortical bone formation with thienopyrimidine based inhibitors of Notum Pectinacetylesterase. Bioorg Med Chem Lett. 2016 Mar 15;26(6):1525-1528.

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