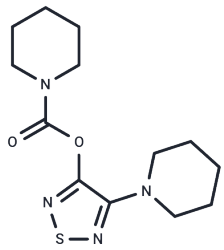
Data Sheet (Cat.No.T41160)

TargetMol

Lalistat 2

Chemical Properties



CAS No. : 1234569-09-5

Formula: C13H20N4O2S

Molecular Weight: 296.39

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	Lalistat 2 is a selective inhibitor of lysosomal acid lipase with IC50 of 152 nM and exhibits no inhibition of human pancreatic lipase or bovine milk lipoprotein lipase (up to 10 μM).
Targets(IC50)	Lipase

Solubility Information

Solubility	DMSO: 250 mg/mL (843.48 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: 2 mg/mL (6.75 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	3.3739 mL	16.8697 mL	33.7393 mL
5 mM	0.6748 mL	3.3739 mL	6.7479 mL
10 mM	0.3374 mL	1.687 mL	3.3739 mL
50 mM	0.0675 mL	0.3374 mL	0.6748 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

Rosenbaum et al (2009) Chemical screen to reduce sterol accumulation in Niemann-Pick C disease cells identifies novel lysosomal acid lipase inhibitors. Biochim.Biophys.Acta. 1791 1155

Hamilton et al (2012) A new method for the measurement of lysosomal acid lipase in dried blood spots using the inhibitor Lalistat 2. Clin.Chim.Acta. 413 1207

Rosenbaum et al (2010) Thiadiazole carbamates: potent inhibitors of lysosomal acid lipase and potential Niemann-Pick type C disease therapeutics. J.Med.Chem. 53 5281

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