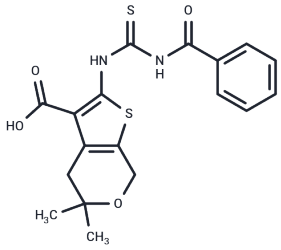
Data Sheet (Cat.No.T7558)

TargetMol

CID-1067700

Chemical Properties



CAS No. : 314042-01-8

Formula: C18H18N2O4S2

Molecular Weight: 390.48

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	CID-1067700 is one of the first identified competitive inhibitors of nucleotide binding by Ras-related GTPases(Rab7 with a Ki of 13 nM).
Targets(IC50)	Ras
In vitro	CID-1067700 binds the nucleotide binding pocket of Rab7 with a Ki value of 13 nM, preventing BODIPY-linked GTP and GDP binding with EC50 values of 11.2 and 21 nM, respectively[1].

Solubility Information

Solubility	DMSO: 38.5 mg/mL (98.6 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: 3.85 mg/mL (9.86 mM),Solution. 10% DMSO+90% Saline: < 3.85 mg/mL (9.86 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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	2.561 mL	12.8048 mL	25.6095 mL
5 mM	0.5122 mL	2.561 mL	5.1219 mL
10 mM	0.2561 mL	1.2805 mL	2.561 mL
50 mM	0.0512 mL	0.2561 mL	0.5122 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

Agola J O , Hong L , Surviladze Z , et al. A Competitive Nucleotide Binding Inhibitor:\r, In Vitro\r, Characterization of Rab7 GTPase Inhibition[J]. ACS Chemical Biology, 2012, 7(6):1095-1108.

Yuan, Yang, Yong-ming, et al. CID 1067700, a late endosome GTPase Rab7 receptor antagonist, attenuates brain atrophy, improves neurologic deficits and inhibits reactive astrogliosis in rat ischemic stroke[J]. 2019(6):724-736.