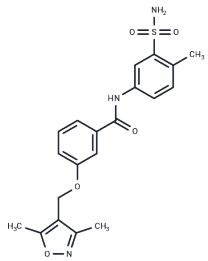
Data Sheet (Cat.No.T37113)

TargetMol

Z62954982

Chemical Properties



CAS No. : 1090893-12-1

Formula: C20H21N3O5S

Molecular Weight: 415.46

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	Z62954982 (ZINC08010136) is a selective inhibitor of Rac1, which stunts the growth and branching of neurons.Z62954982 inhibits Rac1 activation and reduces proliferation, p38 phosphorylation, and IL-6 levels in pulmonary arterioles.
Targets(IC50)	Rho,Ras

Solubility Information

Solubility	DMSO: 10 mg/mL (24.07 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: 1 mg/mL (2.41 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	2.407 mL	12.0349 mL	24.0697 mL
5 mM	0.4814 mL	2.407 mL	4.8139 mL
10 mM	0.2407 mL	1.2035 mL	2.407 mL
50 mM	0.0481 mL	0.2407 mL	0.4814 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

Gokoffski KK,et al. Physiologic Electrical Fields Direct Retinal Ganglion Cell Axon Growth In Vitro. Invest Ophthalmol Vis Sci. 2019 Aug 1;60(10):3659-3668.

Yan Y,et al. Kalirin-9 and Kalirin-12 Play Essential Roles in Dendritic Outgrowth and Branching. Cereb Cortex. 2015 Oct;25(10):3487-501.

Zhang XE,et al. Activation of RhoA, but Not Rac1, Mediates Early Stages of S1P-Induced Endothelial Barrier Enhancement. PLoS One. 2016 May 17;11(5):e0155490.