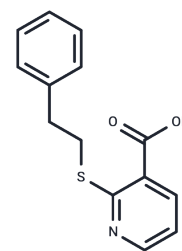


ML-099

Chemical Properties

CAS No. : 496775-95-2
 Formula: C₁₄H₁₃NO₂S
 Molecular Weight: 259.32
 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	ML-099 is a pan Ras-related GTPases activator that activates Rac1, Ras, GTP-binding protein (Rab7), Rab2A and cell division cycle 42.
Targets(IC50)	Rho,Ras
In vitro	ML-099 activates Ras protein wild type(EC50 = 141.25 nM), Rab7(EC50 = 181.97 nM), Rab-2A(EC50 = 354.81 nM), Rac1 protein activated mutant(EC50 = 25.42 nM), Rac1 protein wild type(EC50 = 20.17 nM), Ras protein activated mutant(EC50 = 95.5 nM), cell division cycle 42 activated mutant(EC50 = 58.88 nM) and cell division cycle 42 wild type(EC50 = 100 nM)[1].

Solubility Information

Solubility	DMSO: 247.5 mg/mL (954.42 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: 10 mg/mL (38.56 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (38.56 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8562 mL	19.2812 mL	38.5624 mL
5 mM	0.7712 mL	3.8562 mL	7.7125 mL
10 mM	0.3856 mL	1.9281 mL	3.8562 mL
50 mM	0.0771 mL	0.3856 mL	0.7712 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

Surviladze, Z., et al. UNMCMD Probe Report: Three small molecule pan activator families of Ras-related GTPases. 1-42 (2010-2009 May 18).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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