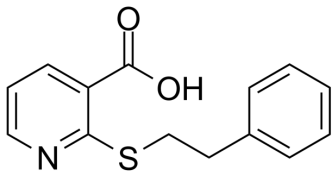
ML-099

Cat. No.:	HY-124306
CAS No.:	496775-95-2
Molecular Formula:	$C_{14}H_{13}NO_2S$
Molecular Weight:	259.32
Target:	Ras
Pathway:	GPCR/G Protein
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (385.62 mM; Need ultrasonic)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (9.64 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (9.64 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (9.64 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ML-099 (CID-888706) is a pan Ras-related GTPases activator that can activate Rac1, cell division cycle 42, Ras, Rab7, and Rab-2A[1].

In Vitro

ML-099 activates cell division cycle 42 activated mutant, cell division cycle 42 wild type, Ras protein wild type, GTP-binding protein (Rab7), Rab-2A, Rac1 protein activated mutant, Rac1 protein wild type, and Ras protein activated mutant with EC_{50} values of 58.88 nM, 100 nM, 141.25 nM, 181.97 nM, 354.81 nM, 25.42 nM, 20.17 nM and 95.5 nM, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA