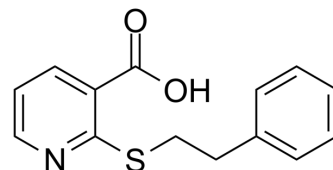


## ML-099

<b>Cat. No.:</b>	HY-124306		
<b>CAS No.:</b>	496775-95-2		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>13</sub> NO <sub>2</sub> S		
<b>Molecular Weight:</b>	259.32		
<b>Target:</b>	Ras		
<b>Pathway:</b>	GPCR/G Protein; MAPK/ERK Pathway		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (385.62 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	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.					
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 2.5 mg/mL (9.64 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.64 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.5 mg/mL (9.64 mM); Clear solution</li> </ol>				

### BIOLOGICAL ACTIVITY

<b>Description</b>	ML-099 (CID-888706) is a pan Ras-related GTPases activator that can activate Rac1, cell division cycle 42, Ras, Rab7, and Rab-2A <sup>[1]</sup> .
<b>In Vitro</b>	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 <sub>50</sub> 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 <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## CUSTOMER VALIDATION

- Research Square Preprint. 2023 Sep 1.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## 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).

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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