

ML-097

Chemical Properties

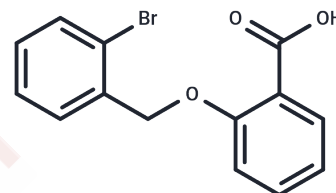
CAS No. : 743456-83-9

Formula: C₁₄H₁₁BrO₃

Molecular Weight: 307.139

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-097 (CID-2160985) is a universal activator of Ras-related GTPases.
Targets(IC50)	GTPase,Ras
In vitro	Activators of Cdc42 function might have a beneficial function in solid tumors and ameliorate faciogenital dysplasia where Cdc42 GEF is mutant. Rho GTPases affect cell proliferation and migration (11). In some cases underexpression is associated with cancer[1].
In vivo	Rac2 is selectively expressed in immune cells and human Rac2 mutations result in immunodeficiency. Therefore, activators of Rac2 or other Rac family members might be of benefit in these diseases. Rac1 is important for maintaining hair follicle integrity and a rac1 deficiency in the skin causes nearly complete hair loss in an animal model[1].

Solubility Information

Solubility	DMSO: 4 mg/mL (13.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2558 mL	16.2792 mL	32.5584 mL
5 mM	0.6512 mL	3.2558 mL	6.5117 mL
10 mM	0.3256 mL	1.6279 mL	3.2558 mL
50 mM	0.0651 mL	0.3256 mL	0.6512 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 , Ursu O , Miscioscia F , et al. Three small molecule pan activator families of Ras-related GTPases[M]. PubMed, 2010.

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