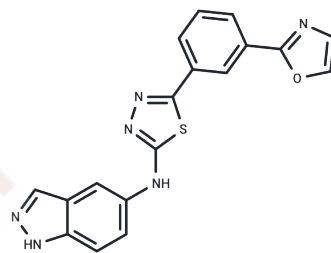


ROCK2-IN-2

Chemical Properties

CAS No. : 1995065-79-6
Formula: C₁₈H₁₂N₆O₅
Molecular Weight: 360.39
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	ROCK2-IN-2 is a selective inhibitor of ROCK2, with an IC ₅₀ of less than 1 μM.
Targets(IC ₅₀)	ROCK
In vitro	Rho-associated protein kinase (ROCK), a serine-threonine protein kinase, includes two isoforms, ROCK1 and ROCK2. ROCK2-IN-2 is involved in cellular functions such as actin organization, cell adhesion, migration, and cytokinesis. It is useful for researching treatments for fibrosis, inflammatory, autoimmune, and cardiovascular disorders [1].

Solubility Information

Solubility	DMSO: 95 mg/mL (263.6 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (9.16 mM),Sonication is recommended. <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	2.7748 mL	13.8739 mL	27.7477 mL
5 mM	0.555 mL	2.7748 mL	5.5495 mL
10 mM	0.2775 mL	1.3874 mL	2.7748 mL
50 mM	0.0555 mL	0.2775 mL	0.555 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

Aicher, Thomas Daniel, et al. INDAZOLYL THIADIAZOLAMINES AND RELATED COMPOUNDS FOR INHIBITION OF RHO-ASSOCIATED PROTEIN KINASE AND THE TREATMENT OF DISEASE. US20180093978A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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