

BAY-091

Chemical Properties

CAS No. : 2922280-34-8

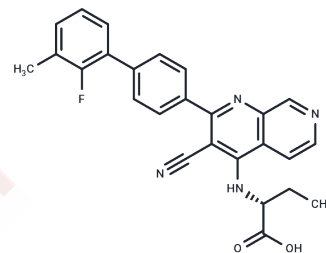
Formula: C₂₆H₂₁FN₄O₂

Molecular Weight: 440.47

Storage: Keep away from direct sunlight, Keep away from moisture

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	BAY-091 is a novel, potent, and highly selective inhibitor of PIP4K2A kinase.
Targets(IC50)	Others,PI3K

Solubility Information

Solubility	DMSO: 150 mg/mL (340.55 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 (22.7 mM),Suspension. 10% DMSO+90% Saline: < 10 mg/mL (22.7 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	2.2703 mL	11.3515 mL	22.703 mL
5 mM	0.4541 mL	2.2703 mL	4.5406 mL
10 mM	0.227 mL	1.1352 mL	2.2703 mL
50 mM	0.0454 mL	0.227 mL	0.4541 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

Wortmann L, et al. Discovery and Characterization of the Potent and Highly Selective 1,7-Naphthyridine-Based Inhibitors BAY-091 and BAY-297 of the Kinase PIP4K2A. J Med Chem. 2021 Nov 11;64(21):15883-15911.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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