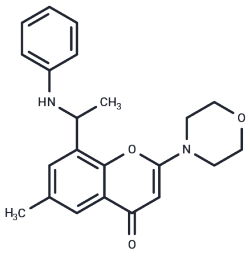
Data Sheet (Cat.No.T28416)

PIK-108

Chemical Properties



CAS No. : 901398-68-3

Formula: C22H24N2O3

Molecular Weight: 364.44

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	PIK-108 is an allosteric inhibitor of phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunits β and δ (PI3Kβ/δ).
Targets(IC50)	PI3K

Solubility Information

Solubility	DMSO: 45 mg/mL (123.48 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: 2 mg/mL (5.49 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7439 mL	13.7197 mL	27.4394 mL
5 mM	0.5488 mL	2.7439 mL	5.4879 mL
10 mM	0.2744 mL	1.372 mL	2.7439 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 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

Certal V, Halley F, Virone-Oddos A, Delorme C, Karlsson A, Rak A, Thompson F, Filoche-Rommé B, El-Ahmad Y, Carry JC et al.. (2012) Discovery and optimization of new benzimidazole- and benzoxazole-pyrimidone selective PI3Kβ inhibitors for the treatment of phosphatase and TENsin homologue (PTEN)-deficient cancers. J. Med. Chem., 55 (10): 4788-805. [PMID:22524426]

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