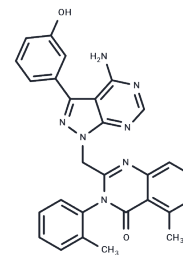


PIK-294

Chemical Properties

CAS No. : 900185-02-6
 Formula: C₂₈H₂₃N₇O₂
 Molecular Weight: 489.53
 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-294 is an excellently specific p110δ inhibitor (IC ₅₀ =10 nM).
Targets (IC ₅₀)	PI3K
In vivo	PIK-294 exhibits inhibitory effects on various PI3K isoforms, including p110β, p110δ, and p110γ; however, it demonstrates low selectivity towards p110α.

Solubility Information

Solubility	Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 140 mg/mL (285.99 mM), Sonication is recommended. H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (20.43 mM), Solution. 10% DMSO+90% Saline: < 10 mg/mL (20.43 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn Oil: 3.3 mg/mL (6.74 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	2.0428 mL	10.2139 mL	20.4278 mL
5 mM	0.4086 mL	2.0428 mL	4.0856 mL
10 mM	0.2043 mL	1.0214 mL	2.0428 mL
50 mM	0.0409 mL	0.2043 mL	0.4086 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

Knight ZA, et al. Cell. 2006, 125(4), 733-747.

Bobrovnikova-Marjon E, et al. Mol Cell Biol. 2012, 32(12), 2268-2278.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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