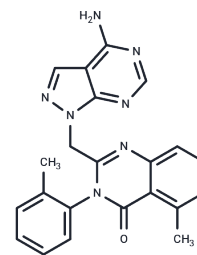


PIK-293

Chemical Properties

CAS No. : 900185-01-5
 Formula: C₂₂H₁₉N₇O
 Molecular Weight: 397.43
 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-293 is a PI3K inhibitor, for PI3K δ (IC ₅₀ =0.24 μ M), and less potent for PI3K α / β / γ .
Targets(IC ₅₀)	PI3K
In vitro	PIK-293 is a pyrazolopyrimidine analog of IC87114. PIK-293 is synthesized by replacing the adenine of IC87114 with the isosteric pyrazolopyrimidine. [1]

Solubility Information

Solubility	H ₂ O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 80 mg/mL (201.29 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 (5.03 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	2.5162 mL	12.5808 mL	25.1617 mL
5 mM	0.5032 mL	2.5162 mL	5.0323 mL
10 mM	0.2516 mL	1.2581 mL	2.5162 mL
50 mM	0.0503 mL	0.2516 mL	0.5032 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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