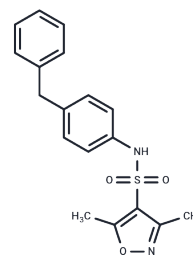


PP5-IN-1

Chemical Properties

CAS No. :	1022417-69-1
Formula:	C ₁₈ H ₁₈ N ₂ O ₃ S
Molecular Weight:	342.41
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	PP5-IN-1 is a potent and competitive serine/threonine protein phosphatase-5 (PP5) inhibitor with potential anticancer activity that induces apoptosis in cancer cells.
Targets(IC50)	Apoptosis, Phosphatase

Solubility Information

Solubility	DMSO: 80 mg/mL (233.64 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: 3.3 mg/mL (9.64 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	2.9205 mL	14.6024 mL	29.2048 mL
5 mM	0.5841 mL	2.9205 mL	5.841 mL
10 mM	0.292 mL	1.4602 mL	2.9205 mL
50 mM	0.0584 mL	0.292 mL	0.5841 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

Elham F Ahanin, et al. Catalytic inhibitor of Protein Phosphatase 5 activates the extrinsic apoptotic pathway by disrupting complex II in kidney cancer. Cell Chem Biol. 2023 Oct 19;30(10):1223-1234.e12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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