

AKT-IN-6

Chemical Properties

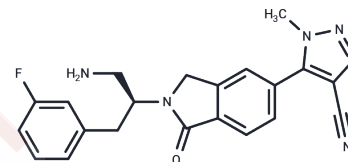
CAS No. : 1430056-54-4

Formula: C₂₂H₂₀FN₅O

Molecular Weight: 389.43

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	AKT-IN-6 (INCB-047775) has an inhibitory effect on Akt. Akt is an important component of cellular signaling for growth factors, cytokines, and other cell stimuli. Abnormal Akt activation has been associated with the development of type 2 diabetes mellitus and cancer.
Targets(IC50)	Akt

Solubility Information

Solubility	DMSO: 112.5 mg/mL (288.88 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: 4 mg/mL (10.27 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	2.5679 mL	12.8393 mL	25.6786 mL
5 mM	0.5136 mL	2.5679 mL	5.1357 mL
10 mM	0.2568 mL	1.2839 mL	2.5679 mL
50 mM	0.0514 mL	0.2568 mL	0.5136 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

Manning BD, et al. AKT/PKB signaling: navigating downstream. Cell. 2007;129(7):1261-1274.

Eva-Maria Cox , et al. AKT activity orchestrates marginal zone B cell development in mice and humans. Volume 42, Issue 4, 25 April 2023, 112378

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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