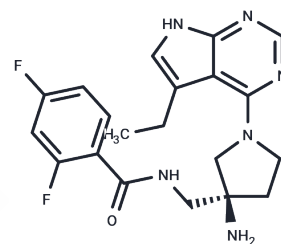


PF-AKT400

Chemical Properties

CAS No. : 1004990-28-6
 Formula: C₂₀H₂₂F₂N₆O
 Molecular Weight: 400.43
 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	PF-AKT400 (Akt protein kinase inhibitor) is a broadly selective and ATP-competitive inhibitor of Akt.
Targets(IC50)	Akt

Solubility Information

Solubility	DMSO: 90 mg/mL (224.76 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 (8.24 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	2.4973 mL	12.4866 mL	24.9732 mL
5 mM	0.4995 mL	2.4973 mL	4.9946 mL
10 mM	0.2497 mL	1.2487 mL	2.4973 mL
50 mM	0.0499 mL	0.2497 mL	0.4995 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

Freeman-Cook KD, et al. Design of selective, ATP-competitive inhibitors of Akt. J Med Chem. 2010 Jun 24;53(12):4615-4622.

Chen SF, et al. Binding selectivity studies of PKB α using molecular dynamics simulation and free energy calculations. J Mol Model. 2013 Nov;19(11):5097-5112.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481