

BAY-8400

Chemical Properties

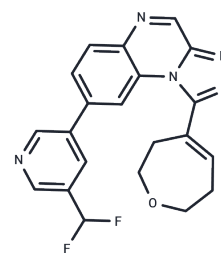
CAS No. :

Formula: C₂₁H₁₇F₂N₅O

Molecular Weight: 393.39

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	BAY-8400 is a potent, selective, and orally active DNA-dependent protein kinase (DNA-PK) inhibitor (IC ₅₀ = 81 nM) that demonstrates synergistic efficacy when combined with targeted alpha therapies. BAY-8400 is applicable for cancer research [1].
Targets(IC ₅₀)	DNA-PK
In vivo	BAY-8400 (150 mg/kg; p.o.) increases the antitumor efficacy that even improved tumor-induced body weight loss. BAY-8400 shows useful aqueous solubility and oral bioavailability across species [1].

Solubility Information

Solubility	DMSO: 60 mg/mL (152.52 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 (5.08 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	2.542 mL	12.710 mL	25.4201 mL
5 mM	0.5084 mL	2.542 mL	5.084 mL
10 mM	0.2542 mL	1.271 mL	2.542 mL
50 mM	0.0508 mL	0.2542 mL	0.5084 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

Berger M, et al. BAY-8400: A Novel Potent and Selective DNA-PK Inhibitor which Shows Synergistic Efficacy in Combination with Targeted Alpha Therapies [published online ahead of print, 2021 Aug 24]. J Med Chem. 2021; 10.1021/acs.jmedchem.1c00762.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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