

CDK8-IN-11

Chemical Properties

CAS No. : 2839338-28-0

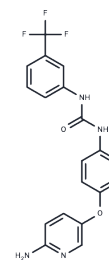
Formula: C₁₉H₁₅F₃N₄O₂

Molecular Weight: 388.34

Store at low temperature

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	CDK8-IN-11 is a selective and potent CDK8 inhibitor that shows antiproliferative activity in colon cancer cell lines, inhibiting WNT/ β -catenin activation and TCF family transcriptional activity, inducing G1-phase arrest in HCT-116 cells, useful for colon cancer research.
Targets(IC50)	CDK,Wnt/beta-catenin
In vitro	Cdk8-in-11 has a strong selective inhibitory activity against CDK8 with IC ₅₀ of 46 nM. CDK8-IN-11 (0-50 μ M, 48 h) inhibited the proliferation of HCT-116, HHT-29, SW480, CT-26 and GES-1 cells with IC ₅₀ values of 1.2, 0.7, 2.4, 5.5 and 62.7 nM, respectively. [1]
In vivo	In CT-26 xenografted mouse models, CDK8-IN-11 (10 and 40 mg/kg, p.o) inhibited tumor growth. [1]

Solubility Information

Solubility	DMSO: 200 mg/mL (515.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5751 mL	12.8753 mL	25.7506 mL
5 mM	0.515 mL	2.5751 mL	5.1501 mL
10 mM	0.2575 mL	1.2875 mL	2.5751 mL
50 mM	0.0515 mL	0.2575 mL	0.515 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

Yan YY, et al. Design and Synthesis of a 2-Amino-pyridine Derivative as a Potent CDK8 Inhibitor for Anti-colorectal Cancer Therapy. J Med Chem. 2022 Oct 13;65(19):13216-13239.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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