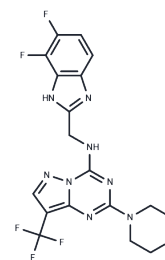


CDK12-IN-5

Chemical Properties

CAS No. :	2651200-35-8
Formula:	C ₁₈ H ₁₅ F ₅ N ₈ O
Molecular Weight:	454.36
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	CDK12-IN-5 is a potent CDK12 inhibitor with potential anticancer and antitumor activity, and can be used orally in the study of breast and ovarian cancer.
Targets(IC50)	CDK
In vitro	CDK12-IN-5 (Example 426) selectively suppresses BRCA1 mRNA levels in MDA-MB-231 cells (IC ₅₀ = 3.23 nM) without affecting CAL-120 cells. It exhibits antiproliferative effects on both MDA-MB-231 (IC ₅₀ = 4.19 nM) and CAL-120 cells (IC ₅₀ = 3.57 nM). Additionally, CDK12-IN-5 demonstrates high selectivity for CDK12 inhibition with an IC ₅₀ to DC50 CDK12 ratio of 32[1].

Solubility Information

Solubility	DMSO: 100 mg/mL (220.09 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (7.26 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	2.2009 mL	11.0045 mL	22.009 mL
5 mM	0.4402 mL	2.2009 mL	4.4018 mL
10 mM	0.2201 mL	1.1004 mL	2.2009 mL
50 mM	0.044 mL	0.2201 mL	0.4402 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

Kai Thede, et al. Pyrazolotriazines. WO2021116178A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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