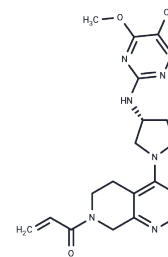


CDK12/13-IN-3

Chemical Properties

CAS No. : 3029608-57-6
 Formula: C₁₉H₂₂ClN₇O₂
 Molecular Weight: 415.877
 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	CDK12/13-IN-3 (Compound 12b) is an orally active CDK inhibitor targeting CDK12 and CDK13, with IC ₅₀ values of 107.4 nM and 79.4 nM, respectively. This compound inhibits the phosphorylation of Ser2 on the CTD of RNA polymerase II, induces DNA damage, and downregulates the gene expression involved in the DNA damage response (DDR). CDK12/13-IN-3 exhibits antiproliferative effects against various cancer cells with nanomolar IC ₅₀ values. In mouse models, it demonstrates antitumor activity, favorable pharmacokinetic properties, and an oral bioavailability of 53.6%.
Targets(IC ₅₀)	CDK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4045 mL	12.0227 mL	24.0454 mL
5 mM	0.4809 mL	2.4045 mL	4.8091 mL
10 mM	0.2405 mL	1.2023 mL	2.4045 mL
50 mM	0.0481 mL	0.2405 mL	0.4809 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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