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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CDK12-IN-E9

Chemical Properties

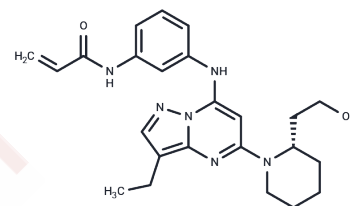
CAS No. : 2020052-55-3

Formula: C₂₄H₃₀N₆O₂

Molecular Weight: 434.53

Appearance: no data available

Storage: store at low temperature
Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	CDK12-IN-E9 is a cell cycle protein kinase (CDK) inhibitor with anticancer and antitumor activity that can be used in the study of breast cancer.
Targets(IC50)	CDK
In vitro	CDK12-IN-E9 treatment of Kelly, LAN5, SK-N-BE2, PC-9, NCI-H82, and NCI-H3122 cells after 72 hours of action in the concentration range of 10 nM to 10 μM showed significant antiproliferative activity against THZ1R neuroblastoma and lung cancer cells, with IC50 values ranging from 8 to 40 nM. After 6 hours of action in the concentration range of 0 to 3000 nM, CDK12-IN-E9 treatment of Kelly, PC-9, and NCI-H82 cells induced a dose-dependent decrease in phosphorylated and total RNAPII accompanied by a decrease in MYC and MCL1 expression in THZ1R neuroblastoma and lung cancer models. In addition, CDK12-IN-E9 increased PARP cleavage and elevated the proportion of sub-G1 phase cells in THZ1R lung cancer cells, whereas it was more likely to cause G2/M phase block in neuroblastoma cells after 24 hours of exposure. [1]

Solubility Information

Solubility	DMSO: 100 mg/mL (230.13 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	2.3013 mL	11.5067 mL	23.0134 mL
5 mM	0.4603 mL	2.3013 mL	4.6027 mL
10 mM	0.2301 mL	1.1507 mL	2.3013 mL
50 mM	0.046 mL	0.2301 mL	0.4603 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.

Reference

Gao Y, et al. Overcoming Resistance to the THZ Series of Covalent Transcriptional CDK Inhibitors. Cell Chem Biol. 2018 Feb 15;25(2):135-142.e5.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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