Data Sheet (Cat.No.T10745)

TargetMol

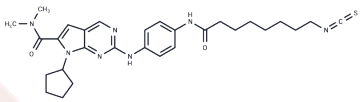
CDK9-IN-7

Chemical Properties

CAS No. : 2369981-71-3

Formula: C29H37N7O2S

Molecular Weight: 547.71



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	CDK9-IN-7 is a highly selective and orally active CDK9/cyclin T inhibitor (IC50: 11 nM), which exhibits more potent over other CDKs (CDK4/cyclinD: 148 nM; CDK6/cyclinD: 145 nM).
Targets(IC50)	Apoptosis,CDK
In vitro	CDK9-IN-7 (compound 21e) displays exceptional potency against NSCLC cell lines, especially A549 and H1299 with IC50 values less than 0.5 μM. In the drug-resistant NSCLC cell line H1975, CDK9-IN-7 also exhibits good inhibition potency (IC50: 0.837 μM) [1].

Solubility Information

Solubility	DMSO: 10 mg/mL (18.26 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: 1 mg/mL (1.83 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8258 mL	9.1289 mL	18.2578 mL
5 mM	0.3652 mL	1.8258 mL	3.6516 mL
10 mM	0.1826 mL	0.9129 mL	1.8258 mL
50 mM	0.0365 mL	0.1826 mL	0.3652 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

Wang X, et al. Novel cyclin-dependent kinase 9 (CDK9) inhibitor with suppression of cancer stemness activity against non-small-cell lung cancer. Eur J Med Chem. 2019 Jul 25;181:111535.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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