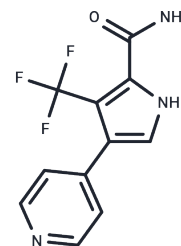


CDK8-IN-1

Chemical Properties

CAS No. :	1629633-48-2
Formula:	C ₁₁ H ₈ F ₃ N ₃ O
Molecular Weight:	255.2
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-1 is a selective CDK8 inhibitor (IC ₅₀ : 3 nM).
Targets(IC ₅₀)	CDK
In vivo	CDK8-IN-1 exhibits low systemic clearance, excellent exposure, and oral bioavailability, with a t _{max} of 0.25 h (p.o.). The AUC values are 9378 (i.v.) and 25952 (p.o.), while the mean C _{max} values are 9940 µg/L (i.v.) and 12740 µg/L (p.o.) respectively[1].

Solubility Information

Solubility	DMSO: 90 mg/mL (352.66 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	3.9185 mL	19.5925 mL	39.185 mL
5 mM	0.7837 mL	3.9185 mL	7.837 mL
10 mM	0.3918 mL	1.9592 mL	3.9185 mL
50 mM	0.0784 mL	0.3918 mL	0.7837 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

Han X, et al. Discovery of potent and selective CDK8 inhibitors through FBDD approach. Bioorg Med Chem Lett. 2017 Sep 15;27(18):4488-4492.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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