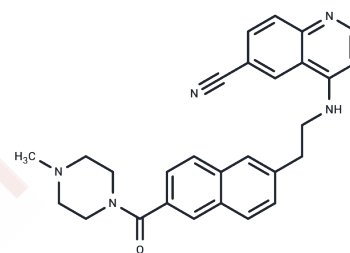


Senexin C

Chemical Properties

CAS No. :	2375554-02-0
Formula:	C ₂₈ H ₂₇ N ₅ O
Molecular Weight:	449.55
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	Senexin C is a novel orally active and specific CDK8/19 inhibitor with potential anticancer activity. Senexin C is more metabolically stable and potent than Senexin B. Senexin C inhibits the growth of MV4-11 leukaemia cells.
Targets(IC50)	CDK
In vitro	Senexin C exhibits high selectivity for CDK8 and CDK19, with similar K _d values of 55 nM and 44 nM respectively for ATP analog binding, while showing much higher K _d values for the other three non-target kinases (HASPIN: 1000 nM; MAP4K2: 940 nM; MYO3B: > 30,000 nM)[1].
In vivo	Tumor-bearing mice (CT26 tumor mode) received Senexin C via intravenous injection at 2.5 mg/kg or orally at 100 mg/kg, and compound concentrations in blood and tumors were measured by LC-MS/MS. The results indicated that Senexin C exhibits favorable tumor PK characteristics and low toxicity[1].

Solubility Information

Solubility	DMSO: 20 mg/mL (44.49 mM), Sonication and heating are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 2 mg/mL (4.45 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	2.2244 mL	11.1222 mL	22.2445 mL
5 mM	0.4449 mL	2.2244 mL	4.4489 mL
10 mM	0.2224 mL	1.1122 mL	2.2244 mL
50 mM	0.0445 mL	0.2224 mL	0.4449 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

Zhang L, et al. A Selective and Orally Bioavailable Quinoline-6-Carbonitrile-Based Inhibitor of CDK8/19 Mediator Kinase with Tumor-Enriched Pharmacokinetics. *J Med Chem.* 2022; 65(4):3420-3433.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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