

XIE18-6

Chemical Properties

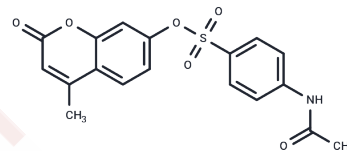
CAS No. : 1286862-52-9

Formula: C₁₈H₁₅NO₆S

Molecular Weight: 373.38

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	XIE18-6 is a novel INK4C inhibitor that selectively blocks the biological activity of the p18 protein, a regulator of the cell cycle. XIE18-6 promotes the ex vivo expansion of both human and murine hematopoietic stem cells, making it a valuable tool for stem cell biology and regenerative medicine research.
Targets(IC50)	CDK

Solubility Information

Solubility	DMSO: 40 mg/mL (107.13 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	2.6782 mL	13.3912 mL	26.7824 mL
5 mM	0.5356 mL	2.6782 mL	5.3565 mL
10 mM	0.2678 mL	1.3391 mL	2.6782 mL
50 mM	0.0536 mL	0.2678 mL	0.5356 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

Xiang-Qun Xie, et al. Discovery of novel INK4C small-molecule inhibitors to promote human and murine hematopoietic stem cell ex vivo expansion. Sci Rep. 2015 Dec 18;5:18115.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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