

AS-85

Chemical Properties

CAS No. : 2323623-80-7

Formula: C₂₆H₂₈F₃N₅O₃S₂

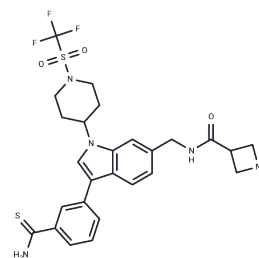
Molecular Weight: 579.66

Store at low temperature, Keep away from direct sunlight

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	AS-85 is a cell permeable ASH1L inhibitor with anti-leukemic activity, inhibits the growth of leukemic cells, increases cLogP, decreases tPSA, and can be used in the study of leukemia.
Targets(IC50)	Histone Methyltransferase
In vitro	AS-85 is a potent inhibitor of ASH1L histone methyltransferase with an IC ₅₀ of 0.6 μM and significant antileukemic activity. AS-85 binds tightly to the SET domain of ASH1L with a K _d value of 0.78 μM. AS-85 inhibits the proliferation of leukemia cells harboring different MLL1 translocations such as MV4;11, MOLM13 and KOPN8. AS-85 inhibited the proliferation of leukemia cells carrying different MLL1 translocations (e.g. MV4;11, MOLM13 and KOPN8) with GI ₅₀ values ranging from 5 μM to 25 μM, but did not have a significant effect on K562 leukemia cells without the MLL1 translocation. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (138.01 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	1.7251 mL	8.6257 mL	17.2515 mL
5 mM	0.345 mL	1.7251 mL	3.4503 mL
10 mM	0.1725 mL	0.8626 mL	1.7251 mL
50 mM	0.0345 mL	0.1725 mL	0.345 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

Rogawski DS, et al. Discovery of first-in-class inhibitors of ASH1L histone methyltransferase with anti-leukemic activity. Nat Commun. 2021 May 14;12(1):2792.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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