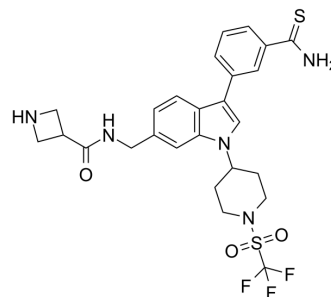


AS-85

Cat. No.:	HY-141430
CAS No.:	2323623-80-7
Molecular Formula:	C ₂₆ H ₂₈ F ₃ N ₅ O ₃ S ₂
Molecular Weight:	579.66
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (172.51 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.7251 mL	8.6257 mL	17.2515 mL
5 mM	0.3450 mL	1.7251 mL	3.4503 mL
10 mM	0.1725 mL	0.8626 mL	1.7251 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

AS-85 is a potent ASH1L histone methyltransferase inhibitor (IC₅₀=0.6 μM) with anti-leukemic activity. AS-85 strongly binds to the ASH1L SET domain, with the K_d value of 0.78 μM^[1].

In Vitro

AS-85 inhibits the growth of leukemia cells (MV4;11, MOLM13, and KOPN8) harboring different MLL1 translocations, with GI₅₀ values ranging from 5 μM to 25 μM, and demonstrates no effect in K562 leukemia cells without MLL1 translocations^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. David S. Rogawski, Jing Deng, Hao Li, Tomasz Cierpicki, Jolanta Grembecka, et al. Discovery of first-in-class inhibitors of ASH1L histone methyltransferase with anti-leukemic activity. Nat Commun. 2021 May 14;12(1):2792.

Caution: Product has not been fully validated for medical applications. For research use only.

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