SETDB1-TTD-IN-1

Cat. No.: HY-141539

CAS No.: 2755823-12-0

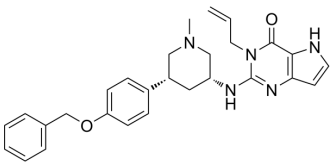
Molecular Formula: $C_{28}H_{31}N_5O_2$

Molecular Weight: 469.58

Target: Histone Methyltransferase

Pathway: Epigenetics

Storage: 4°C, protect from light, stored under nitrogen
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (266.20 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1296 mL	10.6478 mL	21.2956 mL
	5 mM	0.4259 mL	2.1296 mL	4.2591 mL
	10 mM	0.2130 mL	1.0648 mL	2.1296 mL

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

BIOLOGICAL ACTIVITY

Description

SETDB1-TTD-IN-1 is a potent, selective and endogenous binder competitive inhibitor of SET domain bifurcated protein 1 tandem tudor domain (SETDB1-TTD), with a K_d of 88 nM. SETDB1-TTD-IN-1 can be used for the research of biological functions and disease associations of SETDB1-TTD[1].

IC_{50} & Target

SETDB1/KMT2G

In Vitro

SETDB1-TTD-IN-1 shows some activity for 53BP1 and JMJD2A, with K_ds of 4.3 μM and 86 μM, respectively. SETDB1-TTD-IN-1 does not show activity against 14 of the 16 tested tudor domains (K_d>100 μM)[1].

?SETDB1-TTD-IN-1 (2.5-40 μM) efficiently and dose-dependently stabilizes the SETDB1-TTD protein in HEK293T cells[1].

?SETDB1-TTD-IN-1 (2.5-40 μM; 24 h) significantly affected the expression of 72 genes in human acute monocytic leukemia THP-1 cells[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Guo Y, et, al. Structure-Guided Discovery of a Potent and Selective Cell-Active Inhibitor of SETDB1 Tudor Domain. Angew Chem Int Ed Engl. 2021 Apr 12;60(16):8760-8765.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA