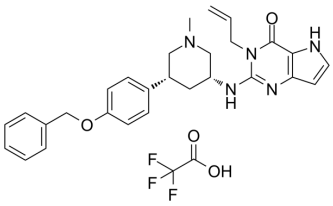
SETDB1-TTD-IN-1 TFA

Cat. No.:	HY-141539A
Molecular Formula:	$C_{30}H_{32}F_3N_5O_4$
Molecular Weight:	583.6
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)



BIOLOGICAL ACTIVITY

Description	SETDB1-TTD-IN-1 TFA 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 TFA can be used for the research of biological functions and disease associations of SETDB1-TTD[1].
IC_{50} & Target	Kd: 88 nM (SETDB1-TTD)[1]
In Vitro	SETDB1-TTD-IN-1 TFA shows some activity for 53BP1 and JMJD2A, with K_ds of 4.3 μM and 86 μM, respectively. SETDB1-TTD-IN-1 TFA 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) TFA efficiently and dose-dependently stabilizes the SETDB1-TTD protein in HEK293T cells[1]. SETDB1-TTD-IN-1 (2.5-40 μM; 24 h) TFA 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.

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

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