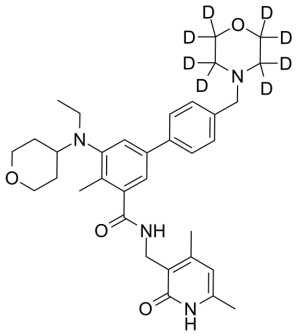
Tazemetostat-d8

Cat. No.:	HY-13803S
Molecular Formula:	$C_{34}H_{36}D_8N_4O_4$
Molecular Weight:	580.79
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Tazemetostat-d8 is deuterium labeled Tazemetostat. Tazemetostat (EPZ-6438) is a potent, selective and orally available EZH2 inhibitor. Tazemetostat (EPZ-6438) inhibits the activity of human polycomb repressive complex 2 (PRC2)-containing wild-type EZH2 with a Ki value of 2.5 nM. Tazemetostat (EPZ-6438) inhibits EZH2 with IC50s of 11 and 16 nM in peptide assay and nucleosome assay, respectively. Tazemetostat (EPZ-6438) inhibits rat EZH2 with an IC50 of 4 nM. Tazemetostat (EPZ-6438) also inhibits EZH1 with an IC50 of 392 nM[1].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Knutson SK, et al. Durable tumor regression in genetically altered malignant rhabdoid tumors by inhibition of methyltransferaseEZH2. Proc Natl Acad Sci U S A. 2013 May 7;110(19):7922-7.

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

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