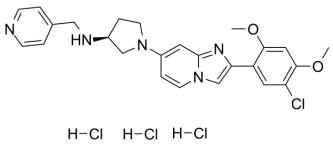
OTS186935 trihydrochloride

Cat. No.:	HY-122181A
CAS No.:	2093401-85-3
Molecular Formula:	$C_{25}H_{29}Cl_4N_5O_2$
Molecular Weight:	573.34
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	OTS186935 trihydrochloride is a protein methyltransferase SUV39H2 inhibitor with an IC_{50} of 6.49 nM. OTS186935 trihydrochloride shows significant inhibition of tumor growth in mouse xenograft models without any detectable toxicity. OTS186935 trihydrochloride regulates the production of γ-H2AX in cancer cells[1].
IC_{50} & Target	IC50: 6.49 nM (SUV39H2)[1]
In Vitro	OTS186935 trihydrochloride inhibits A549 cell growth with IC_{50} of 0.67 μM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	OTS186935 trihydrochloride (10 mg/kg or 25 mg/kg; intravenously; once daily for 14 days) exhibits growth suppressive effects in human cancer cell line derived xenograft models[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Female NOD.CB17-Prkdcscid/J mice (bearing MDA-MB-231 cells)[1]
Dosage:	10 mg/kg
Administration:	Intravenously; once daily for 14 days
Result:	Tumor growth inhibition of 42.6% on day 14.

Animal Model:	Female BALB/cAJcl-nu/nu mice (bearing A549 cells)[1]
Dosage:	25 mg/kg
Administration:	Intravenously; once daily for 14 days
Result:	Yielded a tumor growth inhibition of 60.8% without significant body weight loss or toxicity.

REFERENCES

[1]. Vougiouklakis T, et al. Development of novel SUV39H2 inhibitors that exhibit growth suppressive effects in mouse xenograft models and regulate the phosphorylation of H2AX. Oncotarget. 2018 Aug 7;9(61):31820-31831.

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