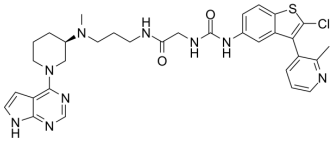
Dot1L-IN-1

Cat. No.:	HY-101520
CAS No.:	2088518-50-5
Molecular Formula:	$C_{32}H_{36}ClN_9O_2S$
Molecular Weight:	646.21
Target:	Histone Methyltransferase
Pathway:	Epigenetics
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Dot1L-IN-1 is a highly potent and selective Dot1L inhibitor with a K_i of 2 pM and an IC_{50} of <0.1 nM. Dot1L-IN-1 potently suppresses H3K79 dimethylation (IC_{50}=3 nM), as well as the activity of the HoxA9 promoter (IC_{50}=17 nM) in HeLa and Molm-13 cells, respectively[1].
IC_{50} & Target	DOT1L
In Vitro	Dot1L-IN-1 (analogue 7) effectively inhibits proliferation of the human MLL-rearranged leukemia cell line MV4-11 carrying the oncogenic MLL-AF4 fusion (IC_{50}=5 nM)[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Möbitz H, et al. Discovery of Potent, Selective, and Structurally Novel Dot1L Inhibitors by a Fragment Linking Approach. ACS Med Chem Lett. 2017 Feb 14;8(3):338-343.

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