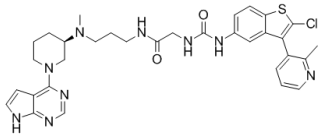
Dot1L-IN-1

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 COA.



BIOLOGICAL ACTIVITY

Description	Dot1L-IN-1 is a highly potent, selective and structurally novel **Dot1L** inhibitor with a K_i of 2 pM.
IC_{50} & Target	Ki: 2 pM (Dot1L)[1]
In Vitro	Dot1L-IN-1 potently suppresses H3K79 dimethylation (IC_{50} = 3 nM), the direct product of the Dot1Lcatalyzed reaction, as well as the activity of the HoxA9 promoter (IC_{50} = 17 nM) in HeLa and Molm-13 cells, respectively[1]. Dot1L-IN-1 effectively inhibits proliferation of the human MLL-rearranged leukemia cell line MV4-11 carrying the oncogenic MLL-AF4 fusion (IC_{50} = 5 nM)[1].

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.

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