

Pinometostat

Catalog No: tcsc1419



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

1380288-87-8

Formula:

$C_{30}H_{42}N_8O_3$

Pathway:

Epigenetics

Target:

Histone Methyltransferase

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 47.8 mg/mL (84.95 mM)

Alternative Names:

EPZ-5676

Observed Molecular Weight:

562.71

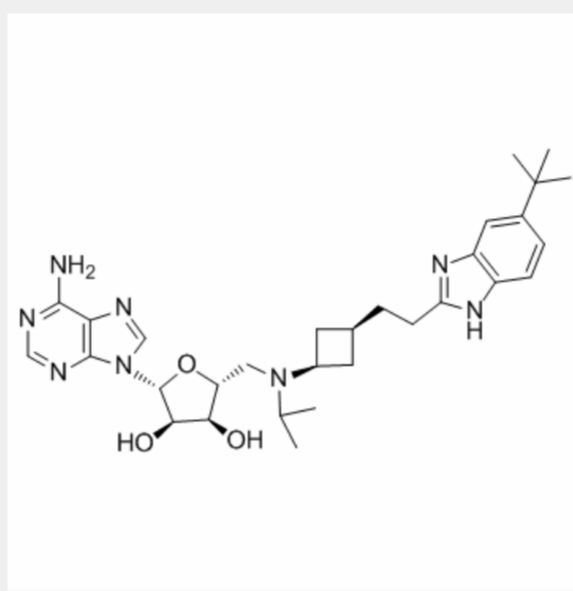
Product Description

Pinometostat (EPZ-5676) is a potent **DOT1L histone methyltransferase** inhibitor with a **K_i** of 80 pM.

IC₅₀ & Target: Ki:

In Vitro: Pinometostat (EPZ-5676) inhibits H3K79me2 with IC₅₀ values of 3 nM and 5 nM in MV4-11 and HL60 cells, respectively. Pinometostat (EPZ-5676) is a potent inhibitor of MV4-11 proliferation with an IC₅₀ value of 3.5 nM^[1]. Pinometostat (EPZ-5676) induces a synergistic and durable antiproliferative effect, increases expression of differentiation markers and apoptosis as single agent, and demonstrates combination benefit in combination with AML standard of care drugs in MLL-r cells^[2].

In Vivo: Pinometostat (EPZ-5676) (70 mg/kg, i.p.) causes complete and sustained regression in a rat xenograft model of MLL-rearranged leukemia. Pinometostat (EPZ-5676) (70, 35 mg/kg, i.v.) reduces HOXA9 and MEIS1 mRNA levels of tumors taken from rats, and reduces MLL-fusion target gene expression in vivo^[1].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!