



EPZ004777

Catalog No: tcsc2326

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 1338466-77-5
Formula: C ₂₈ H ₄₁ N ₇ O ₄
Pathway: Epigenetics
Target: Histone Methyltransferase
Purity / Grade: >98%
Solubility: 10 mM in DMSO

Product Description

539.67

Observed Molecular Weight:

EPZ004777 is a potent, selective **DOT1L** inhibitor with IC_{50} of 0.4 nM.



IC50 & Target: IC50: 0.4 nM (DOT1L)[1]

In Vitro: EPZ004777 demonstrates potent, concentration-dependent inhibition of DOT1L enzyme activity with an IC $_{50}$ of 400±100 pM. EPZ004777 displays remarkable selectivity for inhibition of DOT1L over other HMTs(PRMT5, 521±137 nM; others, >50 μ M). The effect of extended EPZ004777 treatment is remarkably specific for the MLL-rearranged cell lines. The number of viable MV4-11 and MOLM-13 cells is dramatically reduced by EPZ004777, whereas the growth of Jurkat cells is unaffected. A small population of MV4-11 cells remain viable in the presence of EPZ004777, but their number remain constant when growth curves are tracked over longer periods indicating that they have ceased to divide. The proliferation of MLL-AF9-transformed cells is strongly inhibited by EPZ004777 at concentrations of 3 μ M or greater^[1]. EPZ004777 selectively inhibits proliferation of MLL-AF10 and CALM-AF10 transformed murine bone marrow cells^[2].

In Vivo: EPZ004777 is well tolerated and no overt toxicity is observed. Complete blood count analysis after 14 days of continuous exposure to EPZ004777 revealed a statistically significant increase in the total white blood cell count, which resulted from an increase in neutrophils, monocytes, and lymphocytes. EPZ004777 (50, 100, or 150 mg/mL) administration is well tolerated, and no significant weight loss is observed^[1].

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