Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

MI-3

Catalog No: tcsc0772

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
1271738-59-0

Formula:
$C_{18}H_{25}N_5S_2$

Pathway:
Epigenetics

Target:
Histone Methyltransferase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
Menin-MLL inhibitor 3

Observed Molecular Weight:
375.55

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Product Description

MI-3 is a Menin-MLL interaction inhibitor with IC50 value of 648 ± 25 nM.

IC50 value: 648 ± 25 nM [1]

Target: Menin-MLL

in vitro: The menin-MLL inhibitors very effectively blocked proliferation of MLL-AF9 and MLL-ENL transduced BMC, with GI50 values of about 5 μM for MI-2 and MI-3. MI-2 and MI-3 showed only a small effect on the cell growth of E2A-HLF transduced BMC (GI50 > 50 μM). MI-2 and MI-3 substantially and specifically reduce the immortalization potential of cells transformed with MLL fusion oncoproteins [1].

in vivo: MLL-AF9 transformed BMC that remained viable after 7 days of treatment with MI-2 and MI-3 showed substantial changes in morphology, indicative of monocytic differentiation, as evidenced by increased cell size, lower nuclear to cytoplasmic ratio and highly vacuolated cytoplasm. Consistent with the change in cell morphology, the expression of CD11b was substantially increased on MLL-AF9 transformed BMC after 7 days of treatment with MI-2 and MI-3 [1].