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

MM-102

Catalog No: tcsc3086

Available Sizes

Size: 2mg

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
1417329-24-8

Formula:
$C_{35}H_{49}F_2N_7O_4$

Pathway:
Epigenetics

Target:
Histone Methyltransferase

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
HMTase Inhibitor IX

Observed Molecular Weight:
669.8

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Product Description

MM-102 is a potent WDR5/MLL interaction inhibitor, achieves IC50 = 2.4 nM with an estimated Ki 200 times more potent than the ARA peptide.

IC50 value: 2.4 nM

Target: MLL

in vitro: MM-102 inhibits MLL1 methyltransferase activity and MLL-1-induced HoxA9 and Meis-1 gene expression in leukemia cells expressing the MLL1-AF9 fusion gene. Also inhibits cell growth and induces apoptosis in leukemia cells harbouring MLL1 fusion proteins. MM-102, with the highest binding affinities to WDR5, also show the most potent inhibitory activity in the HMT assay with IC50 = 0.4-0.9 μM. MM-102 dose-dependently inhibits cell growth in the MV4;11 and KOPN8 leukemia cell lines, which carry MLL1-AF4 and MLL1-ENL fusion proteins, respectively. MM-102 has IC50 = 25 μM in both cell lines and completely inhibits cell growth in these cell lines at 75 μM. MM-102 effectively and selectively inhibits cell growth and induces apoptosis in leukemia cells harboring MLL1 fusion proteins and has minimal effect in leukemia cells with wild-type MLL1 protein.[1]