

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

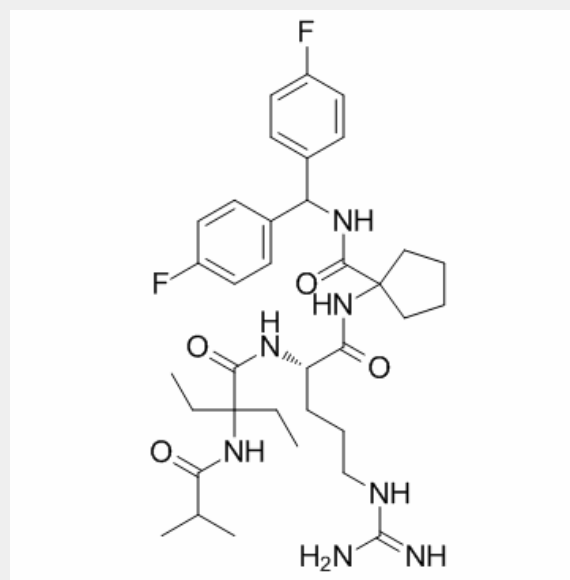
Product Description

MM-102 is a potent WDR5/MLL interaction inhibitor, achieves $IC_{50} = 2.4$ nM with an estimated K_i 200 times more potent than the ARA peptide.

IC_{50} 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 $IC_{50} = 0.4$ - 0.9 μ M. 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 $IC_{50} = 25$ μ M in both cell lines and completely inhibits cell growth in these cell lines at 75 μ M. 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]



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