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MM-102

产品编号: D50832

CAS: 1417329-24-8

分子式: C35H49F2N7O4

纯度: ≥98%

InChi: InChI=1S/C35H49F2N7O4/c1-5-34(6-2,43-29(45)22(3)4)31(47)41-27(10-9-21-40-33(38)39)30(46)44-35(19-7-8-20-35)32(48)42-28(23-11-15-25(36)16-12-23)24-13-17-26(37)18-14-24/h11-18,22,27-28H,5-10,19-21H2,1-4H3,(H,41,47)(H,42,48)(H,43,45)(H,44,46)(H4,38,39,40)/t27-/m0/s1

InChi Key: RZKSQRIPRKWVBU-MHZLTWQESA-N

Smiles: CC(C)C(=O)NC(CC)(CC)C(=O)N[C@@H](CCCNC(N)=N)C(=O)NC1(CCCC1)C(=O)NC(C1=CC=C(F)C=C1)C1=CC=C(F)C=C1

外观: 固体粉末

作用通路: Histone Methyltransferase

溶解性: DMSO up to 100 mM

保存条件: Store in dry, dark place for one year.

产品介绍: MM-102 is a highly potent and selective inhibitor of the MLL1/WDR5 interaction with an IC50 ~2.9 nM binding affinity to WDR5. In the MLL1-AF9 transduced murine cells, MM-102 specifically reduces expression of two critical MLL1 target genes (HoxA9 and Meis-1), which are required for MLL1 mediated leukemogenesis. MM-102 also specifically inhibits cell growth and induces apoptosis in leukemia cells harboring MLL1 fusion proteins. MM-102 provides the first proof-of-concept small molecule inhibitor to target the WDR5/MLL1 protein-protein interaction as a novel therapeutic approach for acute leukemia harboring MLL1 fusion proteins.