

Product Name : HDAC1,2-IN-2
Synonyms : MRLB223; MRLB 223; MRLB-223

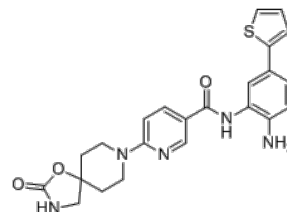
Cat No. : M16716

CAS Number : 937727-03-2

Molecular Formula : C₂₃H₂₃N₅O₃S

Formula Weight : 449.53

Chemical Name : N-(2-amino-5-(thiophen-2-yl)phenyl)-6-(2-oxo-1-oxa-3,8-diazaspiro[4.5]decan-8-yl)nicotinamide



Description : A potent, selective HDAC1 and HDAC2 inhibitor with IC₅₀ of 6 nM and 45 nM, respectively; displays highly selectivity over HDAC3 (IC₅₀=7.0 μM), HDAC8 and 11 (IC₅₀=20-25 μM) and no activity on HDACs 4-7; increases lysine 5 of histone H2B (H2BK5) in HCT116 colon carcinoma cells with IC₅₀ of 400 nM, inhibited the cell growth with GI₅₀ of 97 nM; exhibits tumor growth inhibition in HCT116 xenograft mice.

Pathway : Cell Cycle/DNA Damage

Target : HDAC

Receptor : HDAC

Solubility : —

SMILES : O=C(NC1=CC(C2=CC=CS2)=CC=C1N)C3=CC=C(N=C3)N(CC4)CCC4(O5)CNC5=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Hamblett CL, et al. Bioorg Med Chem Lett. 2007 Oct 1;17(19):5300-9. 2. Methot JL, et al. ACS Med Chem Lett. 2014 Jan 2;5(4):340-5.