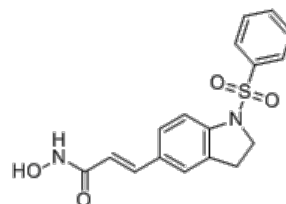


Product Name : MPT0E028
Synonyms : MPT0 E028
Cat No. : M11358
CAS Number : 1338320-94-7
Molecular Formula : C₁₇H₁₆N₂O₄S
Formula Weight : 344.39
Chemical Name : (E)-N-hydroxy-3-(1-(phenylsulfonyl)indolin-5-yl)acrylamide



Description : MPT0E028 (MPT 0E028) is a potent HDAC inhibitor that inhibits nuclear HDAC activity with IC₅₀ of 11.1 nM in HeLa cells, 9-30 times more potent than SAHA; inhibits class I HDAC1, HDAC2, and class IIb HDAC6 with IC₅₀ of 53, 106, and 29.5 nM, respectively, weakly inhibits HDAC8 (IC₅₀=2.5 μM), but not for HDAC4 (IC₅₀>10 μM); inhibits the growth of HCT116 and MDA-MB-231 cells with IC₅₀ of 0.09 and 0.19 μM; inhibits HCT116 tumor xenograft in vivo without significant adverse effects, shows stronger anti-cancer efficacy than SAHA. Solid Tumors Phase 1 Clinical

Pathway : Cell Cycle/DNA Damage

Target : HDAC

Receptor : HDAC

Solubility : —

SMILES : O=C(NO)/C=C/C1=CC2=C(N(S(=O)(=O)C3=CC=CC=C3)=O)CC2)C=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Huang HL, et al. PLoS One. 2012;7(8):e43645.
2. Chen MC, et al. Cell Death Dis. 2013 Sep 19;4:e810.
3. Chen CH, et al. Clin Cancer Res. 2014 Mar 1;20(5):1274-1287.
4. Huang HL, et al. Oncotarget. 2015 Mar 10;6(7):4976-91.