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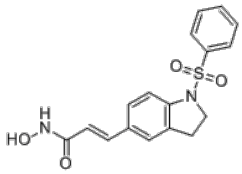
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MPT0E028
Cat. No.	:	PC-35302
CAS No.	:	1338320-94-7
Molecular Formula	:	$C_{17}H_{16}N_2O_4S$
Molecular Weight	:	344.385
Target	:	HDAC
Solubility	:	10 mM in DMSO



Biological Activity

Imofinostat (MPT0E028) is a potent **HDAC** inhibitor with IC50 of 53.0 nM, 106.2 nM, 29.5 nM for **HDAC1**, **HDAC2** and **HDAC6**, respectively, inhibits nuclear HDAC activity with IC50 of 11.1 nM in HeLa cells, 9-30 times more potent than SAHA.
MPT0E028 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 uM), but not for HDAC4 (IC50>10 uM).
MPT0E028 inhibits the growth of HCT116 and MDA-MB-231 cells with IC50 of 0.09 and 0.19 uM.
MPT0E028 inhibits HCT116 tumor xenograft in vivo without significant adverse effects, shows stronger anti-cancer efficacy than SAHA.

References

Huang HL, et al. ***PLoS One***. 2012;7(8):e43645.

Chen MC, et al. ***Cell Death Dis***. 2013 Sep 19;4:e810.

Chen CH, et al. ***Clin Cancer Res***. 2014 Mar 1;20(5):1274-1287.

Huang HL, et al. ***Oncotarget***. 2015 Mar 10;6(7):4976-91.

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