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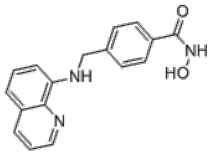
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	MPT0G211
Cat. No.	:	PC-35288
CAS No.	:	2151853-97-1
Molecular Formula	:	$C_{17}H_{15}N_3O_2$
Molecular Weight	:	293.326
Target	:	HDAC
Solubility	:	10 mM in DMSO



Biological Activity

MPT0G211 is a potent, selective **HDAC6** inhibitor with IC50 of 0.291 nM, displays >1,000-fold selectivity over other HDAC isoforms.
MPT0G211 significantly inhibits tau phosphorylation on Ser396, Ser404, and phosphorylated tau (p-tau) aggregation.
MPT0G211 significantly attenuates apoptosis induced by p-tau, inhibits HDAC6/Hsp90 binding and causes subsequent proteasomal degradation of polyubiquitinated proteins.
MPT0G211 ameliorates learning and memory impairment in animal models of Alzheimer's disease, reduces the amount of phosphorylated tau in the hippocampal CA1 region.
MPT0G211 also demonstrates antiproliferative activity against human multiple myeloma RPMI 8226, U266, and NCI-H929 cells with no effect on normal bone marrow cells.

References

Fan SJ, et al. ***Cell Death Dis***. 2018 May 29;9(6):655.

Lee HY, et al. ***J Med Chem***. 2018 Feb 8;61(3):905-917.

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