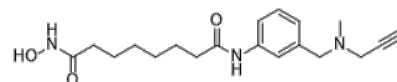


Product Name : MPT0G521
Cat. No. : PC-28051
CAS No. : 3023019-99-7
Molecular Formula : C₁₉H₂₇N₃O₃
Molecular Weight : 345.44
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

MPT0G521 (HDAC6-IN-3) is a potent, orally active dual **KDM1A/class I HDAC** inhibitor with IC₅₀ of 0.02-1.54 μM for HDAC1/2/3/6/8/10, also inhibits lysine-specific demethylase 1A (KDM1A, LSD1). MPT0G521 elicits magnificent cell growth inhibitory effects against the PC-3 and DU-145 cell lines with GI₅₀ of 0.33 μM and 0.42 μM respectively. MPT0G521 inhibits KDM1A activity and alters histone modifications in GBM cells. MPT0G521 triggers G2/M arrest followed by apoptotic sub-G1 accumulation. MPT0G521 induces apoptotic signaling and suppresses Cyclin B1 in GBM cells.

References

Ritu Ojha, et al. *J Med Chem*. 2021 Dec 23;64(24):17824-17845.
Wu AC, et al, *Biochem Pharmacol*. 2026 Sep 2:118415.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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