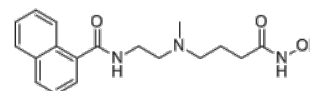


Product Name : DKFZ-748
Cat. No. : PC-49363
CAS No. : 2490709-68-5
Molecular Formula : C₁₈H₂₃N₃O₃
Molecular Weight : 329.400
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

DKFZ-748 (DKFZ748) is a potent, specific **HDAC10** inhibitor with cellular IC₅₀ of 22 nM, >500-fold selectivity over other HDAC isozymes.

Inhibition of HDAC10 activity via DKFZ-748 (5 μM) suppressed colon cancer cell growth rescue by N8-AcSpd in HCT116 WT cells.

DKFZ-748 treatment effectively prevented restoration of polyamine homeostasis by N8-AcSpd in HCT116 cells.

DKFZ-748 showed dose-dependent growth inhibition of HeLa cells in a polyamine-limiting in vitro tumor model.

DKFZ-748 is a valuable chemical probe for studies on the enigmatic biology of HDAC10 and acetylated polyamines in both physiological and pathological settings.

References

Raphael R. Steimbach, et al. *J. Am. Chem. Soc.* 2022.

Tracy Murray Stewart, et al. *J Biol Chem.* 2022 Aug 19;298(10):102407.

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

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