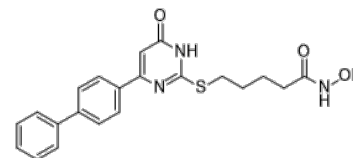


Product Name : MC1742
Cat. No. : PC-27699
CAS No. : 1776116-74-5
Molecular Formula : C₂₁H₂₁N₃O₃S
Molecular Weight : 395.48
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

MC1742 is a potent **HDAC** inhibitor with IC₅₀s of 0.1 μM, 0.11 μM, 0.02 μM, 0.007 μM, 0.61 μM, 0.04 μM and 0.1 μM for HDAC1, HDAC2, HDAC3, HDAC6, HDAC8, HDAC10 and HDAC11, respectively, also potently reactivate **HIV** from latency with EC₅₀ of 350 nM.

MC1742 increases acetyl-H3 and acetyl-tubulin levels and inhibits cancer stem cells growth.

MC1742 induces growth arrest, apoptosis, and differentiation in sarcoma cancer stem cells (CSCs).

MC1742 also blocks Toxoplasma gondii tachyzoite growth and profoundly disrupts parasite gene expression.

References

Di Pompo G, et al. *J Med Chem*. 2015 May 14;58(9):4073-9.

Mouveaux T, et al. *Int J Antimicrob Agents*. 2022 Mar;59(3):106526.

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

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