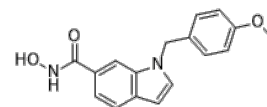


Product Name : PCI-34051
Cat. No. : PC-22427
CAS No. : 950762-95-5
Molecular Formula : C₁₇H₁₆N₂O₃
Molecular Weight : 296.33
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

PCI-34051 is a potent, specific HDAC8 inhibitor with IC₅₀ of 10 nM, >200-fold selectivity over other HDAC isoforms. PCI-34051 induces caspase-dependent apoptosis in cell lines derived from T-cell lymphomas or leukemias, but not in other hematopoietic or solid tumor lines. PCI-34051 does not cause detectable histone or tubulin acetylation. PCI-34051 has a unique mechanism of action involving PLC γ 1 activation and calcium-induced apoptosis.

References

- Balasubramanian S, et al. *Leukemia*. 2008 May;22(5):1026-34.
Ha SD, et al. *J Immunol*. 2014 Aug 1;193(3):1333-43.
Dasgupta T, et al. *J Biol Chem*. 2016 Jun 10;291(24):12761-12770.

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

E-mail: tech@probechem.com