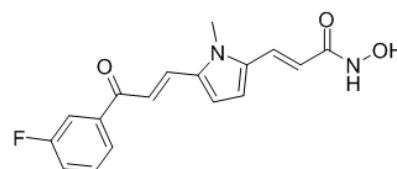


Product Name : MC-1568
Cat. No. : PC-45089
CAS No. : 852475-26-4
Molecular Formula : C₁₇H₁₅FN₂O₃
Molecular Weight : 314.311
Target : HDAC
Solubility : DMSO: 18.5 mg/mL



Biological Activity

MC1568 is a potent and selective **class IIa HDAC** inhibitor with IC₅₀ of 220 nM for maize HD1-A.

MC1568 displays 176-fold selectivity over HD1-B.

MC1568 increases the accumulation of acetylated H3 and H4 histones in MCF-7 cells at 20 μM.

MC1568 promotes neurite growth and arbourisation and protects neurite arbours against neurotoxic insult.

References

Mai A, et al. *J Med Chem.* 2005 May 5;48(9):3344-53.

Duong V, et al. *Mol Cancer Res.* 2008 Dec;6(12):1908-19.

Collins LM, et al. *Mol Neurobiol.* 2015;51(3):1432-42.

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

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