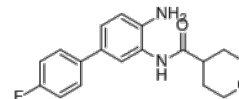


Product Name : BRD4884
Cat. No. : PC-72672
CAS No. : 1404559-91-6
Molecular Formula : C₁₈H₁₉FN₂O₂
Molecular Weight : 314.4
Target : HDAC
Solubility : 10 mM in DMSO



Biological Activity

BRD4884 is a potent, kinetically selective **HDAC2** inhibitor with IC₅₀ of 29/62 nM for HDAC1/2, >17-fold selectivity versus HDAC3.

BRD4884 shows slow-on/slow-off kinetics for HDAC2, but a shift to fast-on/faster-off kinetics for HDAC1, leading to a 7-fold longer half-life on HDAC2 (T_{1/2} 143 min) versus HDAC1 (T_{1/2} 20 min). This binding profile provides kinetic selectivity for HDAC2 and good thermodynamic selectivity for HDAC1, 2 versus HDAC3.

BRD4884 produced significant increases in ACh4K12 and ACh3K9 in mouse forebrain primary neuronal cultures.

BRD4884 (10 mg/kg) rescued the memory defects associated with p25 induced neurodegeneration in a murine model of neurodegeneration.

References

F F Wagner, et al. *Chem Sci*. 2015 Jan 1;6(1):804-815.

Wagner FF, et al. *Bioorg Med Chem*. 2016 Sep 15;24(18):4008-4015.

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

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