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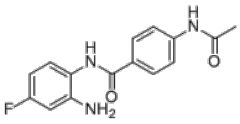
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	BRD3308
Cat. No.	:	PC-62401
CAS No.	:	1550053-02-5
Molecular Formula	:	$C_{15}H_{14}FN_3O_2$
Molecular Weight	:	287.294
Target	:	HDAC
Solubility	:	10 mM in DMSO



Biological Activity

BRD3308 is a potent, selective **HDAC3** inhibitor with IC50 of 54 nM, displays >20-fold selectivity over HDAC1 and HDAC2, >500-fold selectivity over other HDAC isoforms.
BRD3308 attenuates PE-mediated phosphorylation of ERK, but not JNK.
BRD3308 also activates HIV-1 transcription in the 2D10 cell line, induces outgrowth of HIV-1 from resting CD4+ T cells isolated from antiretroviral-treated, aviremic HIV+ patients ex vivo and disrupts HIV-1 latency.
BRD3308 suppresses pancreatic β-cell apoptosis induced by inflammatory cytokines or glucolipotoxic stress, and increases functional insulin release.

References

Ferguson BS, et al. ***Proc Natl Acad Sci U S A.*** 2013 Jun 11;110(24):9806-11.

Barton KM, et al. ***PLoS One***. 2014 Aug 19;9(8):e102684.

Wagner FF, et al. ***ACS Chem Biol***. 2016 Feb 19;11(2):363-74.

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