



RGFP966

Catalog No: tcsc1628

Available Sizes
Size: 5mg
Size: 10mg
Size: 50mg
Size: 100mg
Specifications
CAS No: 1357389-11-7
Formula: C ₂₁ H ₁₉ FN ₄ O
Pathway: Epigenetics;Cell Cycle/DNA Damage
Target: HDAC;HDAC
Purity / Grade: >98%
Solubility: H2O :
Observed Molecular Weight: 362.4

Product Description

RGFP966 is a highly selective **HDAC3** inhibitor with an IC_{50} of 80 nM and shows no inhibition to other HDACs at concentrations up to





15 μΜ.

IC50 & Target: IC50: 80 nM (HDAC3)[1]

In Vitro: RGFP966 potently and selectively inhibits HDAC 3 with IC $_{50}$ of 0.21 μM in RAW 264.7 macrophages, while HDACs 1 (IC $_{50}$ =5.6 μM), 2 (9.7 μM) and 8 (>100 μM), indicating a good level of selectivity for HDAC 3. The mRNA levels of HDACs 1, 2 and 3 are not significantly affected by RGFP966 in RAW 264.7 macrophages, whereas the HDAC 1 and HDAC 2 protein levels are slightly, though significantly, reduced upon RGFP966 treatment. Moreover, RGFP966 significantly reduced the transcriptional activity of NF-κB p65, whereas NF-κB p65 acetylation and localization remain unaltered^[2].

In Vivo: RGFP966 (10 and 25 mg/kg) treatment significantly improves body weight, rotarod performance and several measures of motor function in the open field locomoter test^[3]. RGFP966 at a 10 mg/kg dose penetrates the blood-brain barrier into rat auditory cortex with typical pharmacokinetics, which together establish feasibility for the modulation of A1 plasticity due to action in the auditory cortex^[4].

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!