Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

PCI-34051

Catalog No: tcsc1277

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
950762-95-5

Formula:
$C_{17}H_{16}N_2O_3$

Pathway:
Epigenetics;Cell Cycle/DNA Damage

Target:
HDAC;HDAC

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 30 mg/mL (101.24 mM)

Observed Molecular Weight:
296.32

Product Description

PCI-34051 is a potent and selective **HDAC8** inhibitor with **IC_{50}**

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of 10 nM, with >200-fold selectivity over the other HDAC isoforms.

IC50 & Target: IC50: 10 nM (HDAC8), 2.9 μM (HDAC6), 4 μM (HDAC1), 13 μM (HDAC10)[1]

In Vitro: PCI-34051 inhibits pure recombinant HDAC8 with K_i of 10 nM with >200-fold selectivity over the other HDACs tested, including HDACs 1, 2, 3, 6 and 10. PCI-34051 is derived from a low molecular weight hydroxamic acid scaffold that possessed promising potency (HDAC8; K_i=2 μM) and selectivity (approximately fivefold) for HDAC8 relative to the other class I HDACs. PCI-34051 is found to induce apoptosis at low micromolar concentrations in cell lines derived from T-cell lymphomas, including Jurkat and HuT78, whereas doses as high as 20 μM has no effect on B-cell- or myeloid-derived lymphomas or solid tumor lines[1].

In Vivo: Administration of PCI-34051 and Dexamethasone reduces the eosinophilic inflammation and airway hyperresponsiveness in asthma to reduce the airway remodeling[2].