

Resminostat (hydrochloride)

Catalog No: tcsc1522



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1187075-34-8

Formula:

$C_{16}H_{20}ClN_3O_4S$

Pathway:

Epigenetics;Cell Cycle/DNA Damage

Target:

HDAC;HDAC

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 50 mg/mL (129.58 mM)

Alternative Names:

RAS2410 hydrochloride;4SC-201 hydrochloride

Observed Molecular Weight:

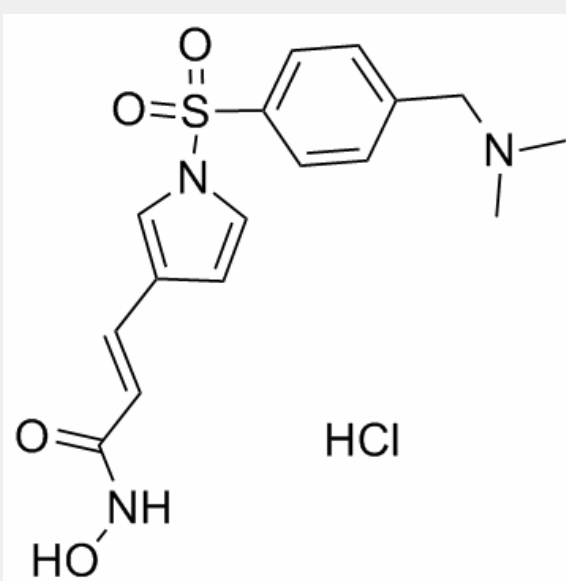
385.87

Product Description

Resminostat hydrochloride is a potent inhibitor of **HDAC1**, **HDAC3** and **HDAC6**, with mean **IC₅₀** values of 42.5, 50.1, 71.8 nM, respectively, and shows less potent activities against HDAC8, with an **IC₅₀** of 877 nM.

IC50 & Target: IC50: 42.5 nM (HDAC1), 50.1 nM (HDAC3), 71.8 nM (HDAC6), 877 nM (HDAC8)^[1]

In Vitro: Resminostat hydrochloride (Resminostat [HCl], 5 μ M) induces histone acetylation in myeloma cells. Resminostat hydrochloride displays a substrate competitive binding mode with a mean K_i value of 27 nM. Resminostat hydrochloride (5 μ M) induces histone hyperacetylation in myeloma cells. Resminostat inhibits cell growth, induces apoptosis and inhibits MM cell proliferation. Resminostat (5 μ M) also modulates expression of bcl-2 family proteins and inhibits Akt pathway signalling downstream of Akt. Resminostat exerts synergistic activity against myeloma cells when combined with common and new anti-myeloma agents^[1]. Resminostat inhibits cell growth in head and neck squamous cell carcinoma cell lines, with IC_{50} s ranging from 0.775 μ M to 1.572 μ M (IC_{50} for SCC25: 0.775 μ M; CAL27: 1.572 μ M; and FaDu: 0.899 μ M). Resminostat (1.25 and 2.5 μ M) has a synergistic effect with irradiation on HNSCC cell lines. Resminostat in combination with cisplatin induces a downregulation of survivin. However, Resminostat shows no effect on Mcl-1 and p-AKT expression^[2]. Resminostat reduces viability of HCC cells with the co-treatment of AZD-2014, with IC_{50} s ranging from $0.89 \pm 0.12 \mu$ M to $0.07 \pm 0.01 \mu$ M^[3].



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