

Vorinostat

Catalog No: tcsc0589



Available Sizes

Size: 250mg

Size: 500mg

Size: 1g

Size: 5g



Specifications

CAS No:

149647-78-9

Formula:

$C_{14}H_{20}N_2O_3$

Pathway:

Autophagy;Epigenetics;Cell Cycle/DNA Damage;Autophagy

Target:

Autophagy;HDAC;HDAC;Mitophagy

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 100 mg/mL (378.33 mM)

Alternative Names:

SAHA

Observed Molecular Weight:

264.32

Product Description

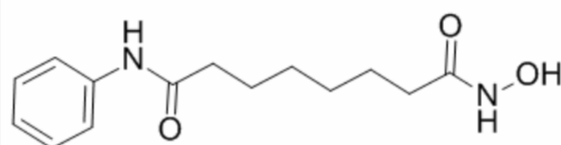
Vorinostat is a potent and orally available inhibitor of **HDAC1**, **HDAC2** and **HDAC3 (Class I)**, **HDAC7 (Class II)** and **Class IV (HDAC11)**, with **ID₅₀** values of 10 nM and 20 nM for HDAC1/3, respectively.

IC₅₀ & Target: ID₅₀: 10 nM (HDAC1), 20 nM (HDAC3)^[3]

HDAC2, HDAC7^[1], HDAC11^[4]

In Vitro: Vorinostat efficiently suppresses MES-SA cell growth at a low dosage (3 μM) already after 24 hours treatment. HDACs class I (HDAC2 and 3) as well as class II (HDAC7) are preferentially affected by this treatment. Vorinostat significantly increases p21^{WAF1} expression and apoptosis in MES-SA cells^[1]. Vorinostat inhibits SK-N-SH and SK-N-Be(2)C with the IC₂₅ values of 1 μM and 0.5 μM, respectively^[2].

In Vivo: Vorinostat (50 mg/kg/day) reduces tumor growth by more than 50% in nude mice injected with 5×10⁶ MES-SA cells^[1].



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