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

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

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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 **ID_{50}** 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 IC_{25} 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 5×10^6 MES-SA cells[1].