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

Panobinostat

Catalog No: tcsc0267

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Size: 500mg

Size: 1g

Specifications

CAS No:
404950-80-7

Formula:
$C_{21}H_{23}N_3O_2$

Pathway:
Autophagy;Epigenetics;Cell Cycle/DNA Damage

Target:
Autophagy;HDAC;HDAC

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 57 mg/mL (163.12 mM)

Alternative Names:
LBH589;NVP-LBH589

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Observed Molecular Weight:
349.43

Product Description

Panobinostat is an oral histone deacetylase (**HDAC**) inhibitor with a multi-targeted profile.

In Vitro: Panobinosta (LBH589) induces apoptosis of both MOLT-4 and Reh cells in a time- and dose-dependent manner. Panobinosta treatment results in histone (H3K9 and H4K8) hyperacetylation and regulation of cell-cycle control genes in Reh cells[1]. Panobinostat exhibites potent antiproliferative activity in human NSCLC cell lines with the IC_{50} ranging from 5 to 100 nM[2].

In Vivo: Panobinosta (10, 20 mg/kg, i.p.) significantly slows tumor growth derived from Meso and NSCLC cells in vivo models. Panobinosta markedly increases acetylation of histone H3 and H4 of H69 human SCLC cells harvest from SCID mice[2]. Panobinostat (5, 10 and 20 mg/kg i.p.) demonstrates a clear benefit of decreased tumor burden, significantly improves TTE and reduces bone density loss in a disseminated multiple myeloma mouse model[3].