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

Scriptaid

Catalog No: tcsc1014

Available Sizes

Size: 10mg

Size: 50mg

Specifications

CAS No:
287383-59-9

Formula:
$C_{18}H_{18}N_2O_4$

Pathway:
Autophagy;Epigenetics;Cell Cycle/DNA Damage

Target:
Autophagy;HDAC;HDAC

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 150 mg/mL (459.63 mM)

Alternative Names:
Scriptide;GCK1026

Observed Molecular Weight:
326.35

Product Description

Scriptaid is a potent **histone deacetylase (HDAC)** inhibitor, used in cancer research.

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IC50 & Target: HDAC[1]

In Vitro: Scriptaid (1 μg/mL) treatment inhibits cell growth in breast cancer cell lines, results in increased accumulation of both acetyl H3 and acetyl H4 proteins in MDA-MB-231, MDA-MB-435, and Hs578t cells. Scriptaid also inhibits cell growth of MDA-MB-231, MDA-MB-435, and Hs578t cell lines, with IC_{50}s of 0.5-1.0 μg/mL. Scriptaid (0.1-1.0 μg/mL) induces ER and PR mRNA expression in a dose dependent manner; when it is combined with AZA, they enhance ER expression and induce a functional ER protein[1]. Scriptaid and SAHA preferentially inhibit the Class I histone deacetylases, hdac1, 2, and 3. Scriptaid is a potent anti-*T. gondii* compound with low cytotoxicity, and the IC_{50} is 39 nM. Scriptaid has atypical effects in T. gondiiinfected HS68 cells[2]. Scriptaid inhibits the growth of HeLa cells with IC_{50} of 2 μM at 48 h in a dose-dependent manner. Scriptaid also affects cell-cycle and apoptosis[3].

In Vivo: Scriptaid (3.5 μg/g mouse, i.p.) clearly inhibits tumor growth in a xenograft mouse model[1].