Cat No. 62-K44

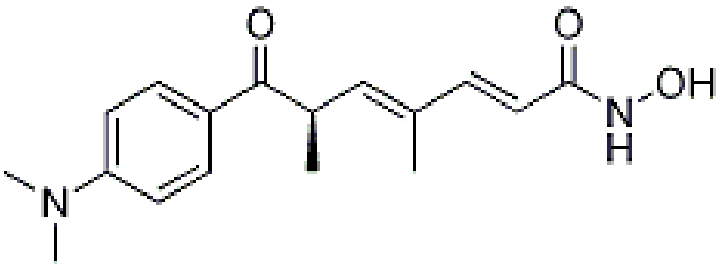
Trichostatin A

1 mg

For research purposes only

Trichostatin A is a selective and potent inhibitor of histone deacetylase (HDAC). It selectively inhibits the removal of acetyl groups from the amino-terminal lysine residues of core histones, resulting in chromatin relaxation and modulation of gene expression. Trichostatin A has been shown to inhibit both the G1- and G2– phases of the mammalian cell cycle and has been used to induce apoptosis in cancer cells with low toxicity to non-cancer cells.

TECHNICAL INFORMATION



Other Names: TSA, [R-(E,E)]-7-[4-(Dimethylamino) phenyl]-N-hydroxy-4,6-dimethyl-7-oxo-2,4-heptadienamide

Chemical Formula: $C_{17}H_{22}N_2O_3$

CAS Number: 58880-19-6

Molecular Weight: 302.37

Purity: ≥98%

Appearance: Crystalline solid

Solubility: Ethanol

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in ethanol. For a 4mM stock solution, reconstitute the compound by adding 826uL of ethanol.

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REFERENCES

1. Yoshida et al. (1995) Trichostatin A and trapoxin: novel chemical probes for the role of histone acetylation in chromatin structure and function. Bioessays. 17(5):423-30.
2. Ailenberg et al. (2002) Trichostatin A-histone deacetylase inhibitor with clinical therapeutic potential-is also a selective and potent inhibitor of gelatinase A expression. Biochem Biophys Res Commun. 298(1):110-5.
3. Maecker et al. (2002) Epigenetic changes in tumor Fas levels determine immune escape and response to therapy. Cancer Cell. 2(2):139-48.