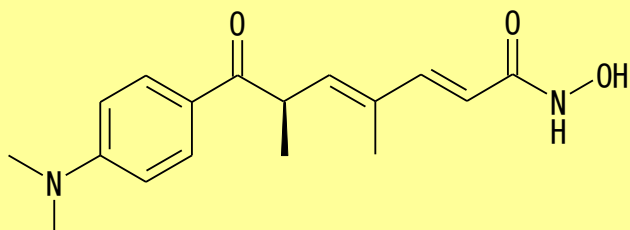


## Trichostatin A

Cat.# BLK0730

## Structure

Origin: *Streptomyces* sp.

CAS Registry Number: 58880-19-6

CA Index Name: 4-[[4-[(2,4-Dimethoxy-6-methylbenzoyl)oxy]-2-hydroxy-6-methylbenzoyl]oxy]-2-hydroxy-6-methylbenzoic Acid

Appearance: off-white solid

Molecular Formula/ Weight: C<sub>17</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub>=302.37

Melting Point: 145-147°C Purity:&gt;95.0% by HPLC

Solubility: Sol. in 1mg/ml ethanol, methanol, DMSO

pKa:

log P:

## Background Information:

Potent, reversible inhibitor of histone deacetylase (HDAC). Mediates the activation of O6-methylguanine-DNA methyltransferase (MGMT). May be involved in cell cycle progression of several cell types. Induces cell growth arrest at both G1 and G2/M phases. May induce apoptosis in some cases. Induces acetylation of histone-3/4 and expression of p300.

## Handling and Storage:

Store at -20°C.

## References:

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9. Cancer Res. 57, 3697 (1997)
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13. BBRC 245, 423 (1998)
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