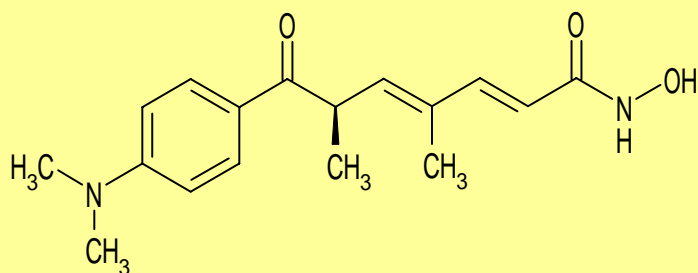


Trichostatin A

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:** C₁₇H₂₂N₂O₃=302.37**Melting Point:** 145-147**Purity:** >95.0% by HPLC**Solubility:** Sol. in DMSO, MeOH, Chloroform, EtOAc Inso. in water, Hexane

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 .

References:

1. H.Tomoda et al., J.Antibiot., **48**, 937 (1995).
2. H.Tomoda et al., J.Antibiot., **48**, 942 (1995).
3. H.Tomoda et al., J.Antibiot., **49**, 929 (1996).
4. J.A.Elix et al., Aust.J. Chem., **34**, 1757 (1981).

Manufactured with Cortesy strain from The Kitasato Institute.