



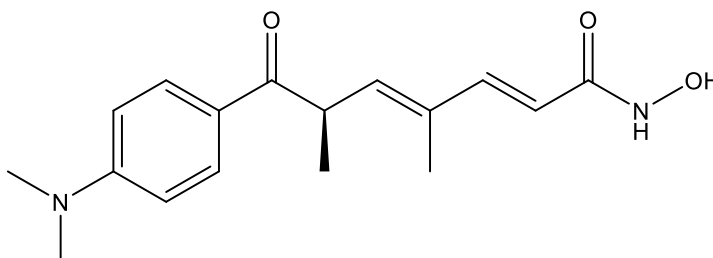
Catalog # 10-2110

Trichostatin A

CAS# 58880-19-6

(2E,4E,6R)-7-(4-(dimethylamino)phenyl)-N-hydroxy-4,6-dimethyl-7-oxo-2,4-heptadienamide
TSA

Lot # X102138



Potent and selective histone deacetylase (HDAC) inhibitor ($K_i = 3.4$ nM). Induces reversion of ras transformed cells to normal morphology. Induces dedifferentiation of primordial germ cells into embryonic germ cells. Cell permeable and active *in vivo*.

- 1) Yoshida *et al.* (1990), *Potent and specific inhibition of mammalian histone deacetylase both in vivo and in vitro by trichostatin A* ; J. Biol. Chem., **265** 17174
- 2) Futamura *et al.* (1995), *Trichostatin A inhibits both ras-induced neurite outgrowth of PC12 cells and morphological transformation of NIH3T3 cells*; Oncogene, **10** 1119
- 3) Durcova-Hills *et al.* (2008), *Reprogramming Primordial Germ Cells into Pluripotent Stem Cells* ; PLoS-One, **3** e3531

PHYSICAL DATA

| | |
|------------------------|---|
| Molecular Weight: | 302.38 |
| Molecular Formula: | C ₁₇ H ₂₂ N ₂ O ₃ |
| Purity: | 99% by HPLC |
| | NMR: (Conforms) |
| Solubility: | DMSO (up to 15 mg/ml) or ethanol (up to 3 mg/ml) |
| Physical Description: | Tan solid |
| Storage and Stability: | Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months. |

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