



## Trichostatin A

### HDAC(histone deacetylase) Inhibitor

E1B1893

HDAC (histone deacetylase) Inhibitor

PRODUCT: Trichostatin A

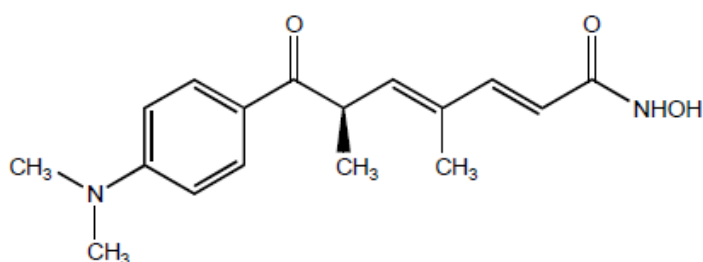
[R-(E,E)]-7-[4-(Dimethylamino)phenyl]-N-hydroxy-4,6-dimethyl-7-oxo-2,4-heptadienamido

CAS NO: 58880-19-6

CATALOG NO.: E1B1893

Package:100ug (2mg/ml in DMSO, 50ul)

STRUCTURE:



PHYSICAL APPEARANCE: lyophilized solid (m.p.150-151°C)

MOLECULAR FORMULA: C<sub>17</sub>H<sub>22</sub>N<sub>2</sub>O<sub>3</sub> MOLECULAR WEIGHT: 302.4

PURITY: 99% (HPLC)

SOLUBILITY: Soluble in DMSO, DMF and ethanol

STORAGE: Store solutions at -20°C for up to 1 year.

APPLICATION NOTES: Potent, reversible inhibitor of histone deacetylase at nM concentrations, which thereby induces hyperacetylation of histones. Blocks cell cycle at G1. Induces reversion of *ras* transformed cells to normal morphology. Inhibits IL-2 gene expression in Jurkat cells (IC<sub>50</sub> = 73 nM) and induces immunosuppression in a mouse model.

REFERENCES:

1. J. Taunton *et al.* *Science* 1996 **272** 371
2. Y. Hoshikawa *et al.* *Exp.Cell Res.* 1994 **214** 189
3. M. Futamura *et al.* *Oncogene* 1995 **10** 1119
4. I. Takahashi *et al.* *Antibiotics* 1996 **49** 453

**The pharmacological and toxicological properties of this product have not been fully investigated. Exercise caution in use and handling. This product must not be used in humans.**

**For Research Use Only**