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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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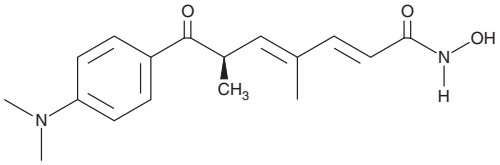
PRODUCT INFORMATION

Trichostatin A

Item No. 89730

CAS Registry No.:	58880-19-6
Formal Name:	7-[4-(dimethylamino)phenyl]-N-hydroxy-4,6R-dimethyl-7-oxo-2E,4E-heptadienamide
Synonym:	TSA
MF:	$C_{17}H_{22}N_2O_3$
FW:	302.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 265, 340 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Trichostatin A (TSA) is supplied as a crystalline solid. A stock solution may be made by dissolving the TSA in the solvent of choice, which should be purged with an inert gas. TSA is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of TSA in these solvents is approximately 2 mg/ml.

TSA is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TSA should be directly dissolved in 0.1 M HCl (1.3 mg/ml) and then neutralized with PBS (pH 7.2) to achieve the desired concentration or pH. Approximately 0.7 ml of PBS (pH 7.2) is required to neutralize 1 ml of the acidic solution. We do not recommend storing the aqueous solution for more than one day.

Description

Trichostatin A is a potent, reversible inhibitor of class I, II, and IV histone deacetylases (HDACs). In human Jurkat T cells, trichostatin A arrests cell cycle progression in G_1 and inhibits the activity of HDAC1 with an IC_{50} value of 70 nM.[1] Trichostatin A selectively inhibits the removal of acetyl groups from the amino-terminal lysine residues of core histones, which modulates the access of transcription factors to the underlying genomic DNA.[2]

References

1. Hoshikawa, Y., Kwon, H.J., Yoshida, M., *et al.* Trichostatin A induces morphological changes and gelsolin expression by inhibiting histone deacetylase in human carcinoma cell lines. *Exp Cell Res.* **214**, 189-97 (1994).
2. Taunton, J., Hassig, C.A., and Schreiber, S.L. A mammalian histone deacetylase related to the yeast transcriptional regulator Rpd3p. *Science* **272**, 408-411 (1996).

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