
Product Data Sheet

Product Name: Trapoxin A

Cat. No.: GC18915

Chemical Properties

Cas. No. 133155-89-2

Chemical Name cyclo[(αS,2S)-α-amino-η-oxo-2-oxiraneoctanoyl-L-phenylalanyl-L-phenylalanyl-(2R)-2-piperidinecarbonyl]

SMILES O=C(N[C@@H](CCCCC([C@@H]1CO1)=O)C(N[C@H]2CC3=CC=CC=C3)=O)[C@]4([H])N(C([C@H](CC5=CC=CC=C5)NC2=O)=O)CCCC4Formula C₃₄H₄₂N₄O₆ M.Wt 602.7

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Trapoxin A is a cyclotetrapeptide histone deacetylase (HDAC) inhibitor. It inhibits HDAC activity in a concentration-dependent and irreversible manner. Trapoxin A inhibits proliferation of NIH3T3 cells transformed by the oncogene v-sis (sis/NIH3T3; IC₅₀ = ~200 ng/ml) and has detransformation activity, flattening sis/NIH3T3 cells when used at a concentration of 1 ng/ml. It also halts the cell cycle at the G2 phase in 3Y1 fibroblasts when used at a concentration of 10 nM and inhibits growth of TR303 cells resistant to trichostatin A at a concentration of 50 ng/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

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