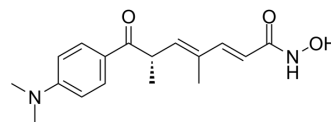


(S)-Trichostatin A

| | |
|---------------------------|---|
| Cat. No.: | HY-15144B |
| CAS No.: | 122292-85-7 |
| Molecular Formula: | C ₁₇ H ₂₂ N ₂ O ₃ |
| Molecular Weight: | 302.37 |
| Target: | HDAC |
| Pathway: | Cell Cycle/DNA Damage; Epigenetics |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | | | | |
|-------------------------------------|---|--|--|---|
| Description | (S)-Trichostatin A ((S)-TSA) is a HDAC6-selective inhibitor with IC ₅₀ s of 9.88 nM and 11.1 nM for Zebrafish HDAC6 and Human HDAC6, respectively. (S)-Trichostatin A weakly inhibits other human HDACs ^[1] . | | | |
| IC₅₀ & Target | hHDAC6 11.1 nM (IC ₅₀) | Zebrafish HDAC6 9.88 nM (IC ₅₀) | hHDAC1 206.3 nM (IC ₅₀) | hHDAC2 612.65 nM (IC ₅₀) |
| | hHDAC3 320.8 nM (IC ₅₀) | hHDAC4 6341 nM (IC ₅₀) | hHDAC5 6325 nM (IC ₅₀) | hHDAC7 1823.5 nM (IC ₅₀) |
| | hHDAC8 312.2 nM (IC ₅₀) | hHDAC9 4824 nM (IC ₅₀) | hHDAC10 403.35 nM (IC ₅₀) | hHDAC11 2684 nM (IC ₅₀) |

REFERENCES

[1]. Yasuyuki Miyake, et al. Structural insights into HDAC6 tubulin deacetylation and its selective inhibition. Nat Chem Biol. 2016 Sep;12(9):748-54.

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

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