

Product Data Sheet

Product Name: Tubastatin A (trifluoroacetate salt)

Cat. No.: GC45095

Chemical Properties

Cas. No. 1239262-52-2

SMILES CN(C1)CCC2=C1C3=C(N2CC4=CC=C(C(NO)=O)C=C4)C=CC=C3.FC(F)(C(O)=O)F

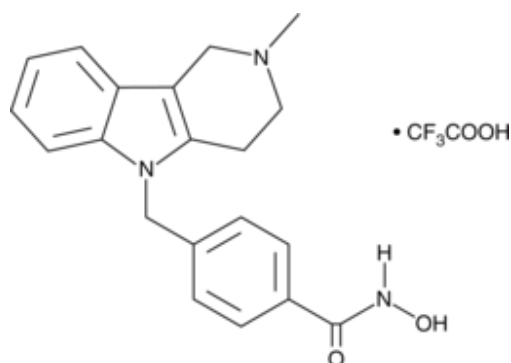
Formula C20H21N3O2.CF3COOH M.Wt 449.4

Solubility DMF: 5 mg/ml, DMSO: 5 mg/ml, DMSO:PBS (pH 7.2) (1:10): 0.1 mg/ml, Ethanol: 0.2 mg/ml
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

Tubastatin A is a potent HDAC6 inhibitor with an IC₅₀ value of 15 nM. Comparatively, it demonstrates over 1,000-fold selectivity against all other HDAC isoforms (IC₅₀s >16 μM), excluding HDAC8 (IC₅₀ = 0.9 μM). Tubastatin A induces α-tubulin hyperacetylation at 2.5 μM in primary cortical

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

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neuron cultures. In a model of oxidative stress induced by glutathione depletion, tubastatin A displays dose-dependent neuronal protection of primary cortical neuron cultures at 5-10 μ M.

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