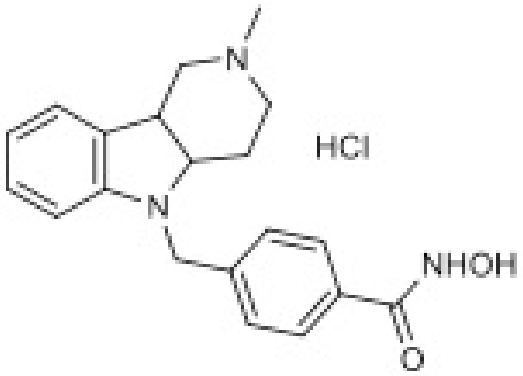
Tubastatin A hydrochloride

Catalog No: 14084, 14085

Format: 25 mg, 5 mg



Chemical structure of Tubastatin A hydrochloride.

Chemical Properties:
MW = 371.9
$C_{20}H_{21}N_3O_2$• HCl
CAS 1310693-92-5
Physical Properties: White powder
Names: Tubastatin A, N-Hydroxy-4-((2-methyl-3,4-dihydro-1H-pyrido[4,3-b]-indol-5(2H)-yl)methyl)benzamide, hydrochloride

Pharmacology: Potent and selective histone deacetylase 6 (HDAC 6) inhibitor (IC_{50} = 15 nm; >1000-fold selective against other HDACs and 60-fold for HDAC8))(ref 1). Inhibits TNFα (IC_{50} = 272 nm) and IL-6 (IC_{50} = 712 nm) in LPS-stimulated human macrophages and displays anti-inflammatory activity in animal models (ref 2). Improves survival in animal models of sepsis (ref 3). Improves cognition in Alzheimers disease transgenic mice (ref 4). Cell permeable.

Solubilization: May be dissolved in DMSO (50 mg/ml)

Fluorescent Properties: N/A

Quality Control:
99% (HPLC); NMR (Conforms)

References:
1. KV Butler *et al. J. Am. Chem. Soc.* 2010, 132:10842
2. S Vishwakarma *et al. Int. Immunopharmacol.* 2013, 16:72
3. T Zhao *et al. Surg. Res.* 2014, 190:647
4. L Zhang *et al. J. Alzheimers Dis.* 2014, 41:1193

Storage and Guarantee: Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 3 months. This product is guaranteed for 6 months from date of arrival.