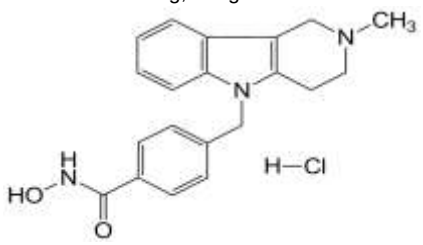
Tubastatin A

ALTERNATE NAME: *n*-Hydroxy-4-((2-methyl-3,4-dihydro-1H-pyrido[4,3-b]-indol-5(2H)-yl)methyl)benzamide

CATALOG #: 1724-1, 5

AMOUNT: 1 mg, 5 mg

STRUCTURE:



MOLECULAR FORMULA: $C_{20}H_{21}N_3O_2$.HCl

MOLECULAR WEIGHT: 371.86

CAS NUMBER: 1239262-52-5

APPEARANCE: Off-white solid

SOLUBILITY: DMSO (~90 mg/ml) or water (~ 4mg/ml) or 2% TWEEN-80/water (~2mg/ml) or 30% PEG (avg. MW = 400 g/mol)/50 mM phosphate buffer (pH = 2.25) (25 mg/ml) (heating is required to initially dissolve the compound).

PURITY: ≥95% by HPLC

STORAGE: Store at -20°C

DESCRIPTION: Cell-permeable, A potent and selective HDAC6 (histone deacetylase 6) inhibitor. Displays 1093-fold selectivity over HDAC1 (IC_{50} values of 15 nM for HDAC6 vs 16.4 µM for HDAC1). Tubastatin A was substantially more selective than the known HDAC6 inhibitor Tubacin at all isozymes except HDAC8. In addition, it displayed over 1000-fold selectivity against all HDAC isoforms excluding HDAC8, where it displayed 54-fold selectivity. Tubastatin A displayed dose-dependent protection against HCA (homocysteic acid)-induced neuronal cell death starting at 5 µM with near complete protection at 10 µM.

REFERENCE: Butler, K.V., *et al*. (2010). *J. Am. Chem. Soc.* **132,** 10842-10846.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

- Apicidin **(Cat. No. 1601-1)**
- CI-994 **(Cat. No. 1742-10, 50)**
- DiscoveryPak™ HDAC Inhibitor Set **(Cat. No. K851-6)**
- M344 **(Cat. No. 1701-1)**
- MS-275 (Entinostat, MS-275) **(Cat. No. 1590-1,5)**
- Panobinostat (LBH589) **(Cat. No. 1612-1,5)**
- SAHA **(Cat. No. 1604-1)**
- Sodium 4-phenylbutyrate **(Cat. No. 1608-100,1000)**
- Sodium Butyrate **(Cat. No. 1609-1000)**
- Splitomycin **(Cat. No. 1610-5)**
- Trichostatin A **(Cat. No. 1606-1)**
- Valproic Acid, Sodium Salt **(Cat. No. 1647-200)**

FOR RESEARCH USE ONLY! Not to be used on humans.

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