Product Name: Tubastatin A hydrochloride
Catalog No.: 6270
Batch No.: 1
CAS Number: 1310693-92-5
IUPAC Name: N-Hydroxy-4-[(1,2,3,4-tetrahydro-2-methyl-5H-pyrido[4,3-b]indol-5-yl)methyl]benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{20}\text{H}_{21}\text{N}_{3}\text{O}_{2}\cdot\text{HCl} \)
Batch Molecular Weight: 371.86
Physical Appearance: White solid
Solubility: DMSO to 10 mM with gentle warming
Storage: Store at -20°C

2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
\(^1\)H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Theoretical</th>
<th>Found</th>
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</thead>
<tbody>
<tr>
<td>Carbon</td>
<td>64.6</td>
<td>64.2</td>
</tr>
<tr>
<td>Hydrogen</td>
<td>5.96</td>
<td>6.06</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>11.3</td>
<td>11.3</td>
</tr>
</tbody>
</table>

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use
Product Information

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Catalog No.: 6270  Batch No.: 1

CAS Number: 1310693-92-5
IUPAC Name: N-Hydroxy-4-[(1,2,3,4-tetrahydro-2-methyl-5H-pyrido[4,3-b]indol-5-yl)methyl]benzamide hydrochloride

Description:
Potent HDAC6 inhibitor (IC50 = 0.015 μM). Exhibits some selectivity for HDAC6 over HDAC8 and 1 (IC50 values are 0.854 and 16.4 μM, respectively). Induces elevated levels of α-tubulin and protects against glutathione-induced oxidative stress in primary neuronal cell culture. Reverses the axonal loss in peripheral neurons in mouse model of Charcot-Marie-Tooth disease.

Physical and Chemical Properties:
Batch Molecular Formula: C28H25N2O4.HCl
Batch Molecular Weight: 371.86
Physical Appearance: White solid
Minimum Purity: >98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:
DMSO to 10 mM with gentle warming

Stability and Solubility Advice:
Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References: