GW311616 hydrochloride

Cat. No.: HY-15891A
CAS No.: 197890-44-1
Molecular Formula: C₁₉H₃₂ClN₃O₄S
Molecular Weight: 433.99
Target: Elastase
Pathway: Metabolic Enzyme/Protease
Storage: Please store the product under the recommended conditions in the COA.

Solvent & Solubility

<table>
<thead>
<tr>
<th>In Vitro</th>
<th>10 mM in DMSO</th>
</tr>
</thead>
</table>

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.3042 mL</td>
<td>11.5210 mL</td>
<td>23.0420 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4608 mL</td>
<td>2.3042 mL</td>
<td>4.6084 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2304 mL</td>
<td>1.1521 mL</td>
<td>2.3042 mL</td>
</tr>
</tbody>
</table>

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description
GW311616A(GW311616 Hcl) is a potent, intracellular, orally bioavailable, long duration inhibitor of human neutrophil elastase(HNE) with IC50 of 22 nM. IC50 value: 22 nM [1] Target: neutrophil elastase The HNE inhibitor GW311616A is selective over other human serine proteases (IC50 values >100 uM for trypsin, cathepsin G, and plasmin, >3 mM for chymotrypsin and tissue plasminogen activator). Acetylcholinesterase is not inhibited by GW311616A at 100 uM. GW311616A is more potent than thetrifluoromethylketone inhibitor ZD8321 (Ki=13 nM). GW311616A is orallybioavailable in rat, dog (Table 4) and hamster despite moderate to high plasmaclearance, which indicates that clearance is predominantly extrahepatic.

CUSTOMER VALIDATION


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Caution: Product has not been fully validated for medical applications. For research use only.
Tel: 609-228-6898        Fax: 609-228-5909        E-mail: tech@MedChemExpress.com
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