GW311616

Cat. No.: HY-15891
CAS No.: 198062-54-3
Molecular Formula: C₁₉H₃₁N₃O₄S
Molecular Weight: 397.53
Target: Elastase
Pathway: Metabolic Enzyme/Protease
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

Solvent & Solubility

In Vitro
DMSO : ≥ 44 mg/mL (110.68 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>2.5155 mL</td>
<td>12.5777 mL</td>
<td>25.1553 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.5031 mL</td>
<td>2.5155 mL</td>
<td>5.0311 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2516 mL</td>
<td>1.2578 mL</td>
<td>2.5155 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
GW311616 is a potent, intracellular, orally bioavailable, long duration inhibitor of human neutrophil elastase (HNE) with IC50 of 22 nM; free base form of GW311616A. 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 the trifluoromethylketone inhibitor ZD8321 (Ki=13 nM).
GW311616A is orally bioavailable 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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REFERENCES


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
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA