DS-1040 Tosylate

Cat. No.: HY-101918
CAS No.: 1335138-89-0
Molecular Formula: C₂₃H₃₅N₃O₅S
Molecular Weight: 465.61
Target: Others
Pathway: Others
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Mass Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂O: 100 mg/mL (214.77 mM; Need ultrasonic)</td>
<td>1 mM</td>
<td>2.1477 mL</td>
<td>10.7386 mL</td>
<td>21.4772 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.4295 mL</td>
<td>2.1477 mL</td>
<td>4.2954 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.2148 mL</td>
<td>1.0739 mL</td>
<td>2.1477 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description

DS-1040 Tosylate is an orally active, selective inhibitor of activated thrombin-activatable fibrinolysis inhibitor (TAFIa) with IC₅₀s of 5.92 nM and 8.01 nM for human and rat TAFIa. DS-1040 Tosylate is a fibrinolysis enhancer for thromboembolic diseases[1].

IC₅₀ & Target

IC₅₀: 5.92 nM (human TAFIa) and 8.01 nM (rat TAFIa)[1]

In Vitro

DS-1040 Tosylate inhibits human carboxypeptidase N (CPN) in vitro with an IC₅₀ of 3.02 mM[1].

In Vivo

DS-1040 Tosylate (0.0005-0.5 mg/kg; IV) significantly reduces the microthrombi index at doses of 0.005 mg/kg and greater[1].
DS1040 (0.0005-0.031, 0.063, 0.13, 0.25, 0.50 mg/kg; i.v.) increases plasma D-dimer levels in a dose-dependent manner in the microthrombosis model. ED₅₀ and ED₅₀max are 122 and 221 nmol/L, respectively[1].
DS-1040 (0.25, 0.5, 1, 2, 4, 8, 16 mg/kg; orally) also increases plasma D-dimer levels. EC₅₀ and EC₅₀max values are 114 and 231 nmol/L, respectively[1].
Animal Model: Male Slc:Wistar rats\(^1\)

Dosage: 0.0005, 0.005, 0.05, 0.5 mg/kg

Administration: IV

Result: Significantly reduced the microthrombi index at doses of 0.005 mg/kg and greater.

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