(E)-Necrosulfonamide

Cat. No.: HY-100573
CAS No.: 1360614-48-7
Molecular Formula: C₁₈H₁₅N₅O₆S₂
Molecular Weight: 461.47
Target: Mixed Lineage Kinase
Pathway: MAPK/ERK Pathway
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: ≥ 28 mg/mL (60.68 mM)
- H₂O: < 0.1 mg/mL (insoluble)

* “≥” means soluble, but saturation unknown.

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.1670 mL</td>
<td>10.8349 mL</td>
<td>21.6699 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4334 mL</td>
<td>2.1670 mL</td>
<td>4.3340 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2167 mL</td>
<td>1.0835 mL</td>
<td>2.1670 mL</td>
</tr>
</tbody>
</table>

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

BIOLOGICAL ACTIVITY

Description
(E)-Necrosulfonamide is a necroptosis inhibitor acting by selectively targeting the mixed lineage kinase domain-like protein (MLKL) to block the necrosome formation.

In Vitro
(E)-Necrosulfonamide (0.5-2.5 µM; 20 hours) reduced TRAIL (50 ng/mL) and STS (1 µM) -induced necroptosis in a concentration-dependent manner.[3]

CUSTOMER VALIDATION

• Front Pharmacol. 2019 Sep 3;10:968.
• J Agric Food Chem. 2020 Jan 27.
• J Agric Food Chem. 2019 Sep 12.
• Front Physiol. 2019 Jan 15;9:1922.

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REFERENCES


