IKK-3 Inhibitor

Cat. No.: HY-14682
CAS No.: 862812-98-4
Molecular Formula: C₂₂H₁₉N₃O₅S₂
Molecular Weight: 469.53
Target: IKK
Pathway: NF-κB
Storage: Please store the product under the recommended conditions in the Certificate of Analysis.
Solubility: 10 mM in DMSO
* "<1 mg/mL" means slightly soluble or insoluble. "≥" means soluble, but saturation unknown.

**PREPARING STOCK SOLUTIONS**

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Volume 1 mg</th>
<th>Volume 5 mg</th>
<th>Volume 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>2.1298 mL</td>
<td>10.6489 mL</td>
<td>21.2979 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4260 mL</td>
<td>2.1298 mL</td>
<td>4.2596 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2130 mL</td>
<td>1.0649 mL</td>
<td>2.1298 mL</td>
</tr>
</tbody>
</table>

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

**BIOLOGICAL ACTIVITY**

**Description**
IKK-3 Inhibitor is a potent, selective, inhibitor of IKK-epsilon kinase with IC50 of 40 nM; inactive at IKK-α and IKK-β.
IC50 value: 40 nM
Target: IKK-epsilon
The NF-κB/Rel transcription factors, known to be involved in the regulation of pro-inflammatory cytokines and the pathogenesis of a variety of diseases, are present in the cytosol in an inactive state, complexed with inhibitory IκB proteins. NF-κB is activated upon degradation of IκB following IKK-α and IKK-β phosphorylation. IKK-ε, a homolog of IKKα and IKK-β, can also activate NF-κB. IKK-ε is expressed predominantly in immune cells, and is thought to play a role in the immune response. It is a benzimidazole analog that selectively inhibits IKK-ε with an IC50 value of 40 nM and is essentially inactive at IKK-α and IKK-β.

**IC50 & Target**
TBK1, IC50: 93 nM; IKK-ε, IC50: 469 nM; IKK2, IC50: 790 nM

**REFERENCES**

Caution: Product has not been fully validated for medical applications. For research use only.

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