IRAK4-IN-7

Cat. No.: HY-109585
CAS No.: 1801343-74-7
Molecular Formula: C₂₁H₁₉N₇O₃
Molecular Weight: 417.42
Target: IRAK
Pathway: Immunology/Inflammation; Protein Tyrosine Kinase/RTK
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: 13.89 mg/mL (33.28 mM; Need ultrasonic)
H₂O: < 0.1 mg/mL (insoluble)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent 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>2.3957 mL</td>
<td>11.9783 mL</td>
<td>23.9567 mL</td>
<td></td>
</tr>
<tr>
<td>5 mM</td>
<td>0.4791 mL</td>
<td>2.3957 mL</td>
<td>4.7913 mL</td>
<td></td>
</tr>
<tr>
<td>10 mM</td>
<td>0.2396 mL</td>
<td>1.1978 mL</td>
<td>2.3957 mL</td>
<td></td>
</tr>
</tbody>
</table>

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

In Vivo
1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1.39 mg/mL (3.33 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
IRAK4-IN-7 is a selective and potent IRAK4 inhibitor extracted from patent WO2015104688A1, Compound example 1. IRAK4-IN-7 is useful for treatment of cancer and inflammatory diseases[1].

IC₅₀ & Target
IRAK4

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