Propyphenazone

Cat. No.: HY-A0273
CAS No.: 479-92-5
Molecular Formula: C₁₄H₁₈N₂O
Molecular Weight: 230.31
Target: COX
Pathway: Immunology/Inflammation
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: ≥ 2.6 mg/mL (11.29 mM)
* “≥” means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 mM</td>
<td>4.3420 mL</td>
<td>21.7099 mL</td>
<td>43.4197 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.8684 mL</td>
<td>4.3420 mL</td>
<td>8.6839 mL</td>
</tr>
<tr>
<td>10 mM</td>
<td>0.4342 mL</td>
<td>2.1710 mL</td>
<td>4.3420 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions

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

BIOLOGICAL ACTIVITY

Description
Propyphenazone is a pyrazolone derivative with anti-inflammatory, analgesic and antipyretic activity. Propyphenazone-based analogues as prodrugs and selective cyclooxygenase-2 inhibitors. Target: COX-2
Propyphenazone is structurally related to aminophenazone it has been associated with severe blood dyscrasias. Propyphenazone is introduced for the treatment of rheumatic disorders.

IC₅₀ & Target
COX

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

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