P62-mediated mitophagy inducer

Cat. No.: HY-115576
CAS No.: 1809031-84-2
Molecular Formula: C₁₄H₉IN₄O₂
Molecular Weight: 392.15
Target: Mitophagy
Pathway: Autophagy
Storage: Powder -20°C 3 years
In solvent -80°C 6 months
-20°C 1 month

SOLVENT & SOLUBILITY

In Vitro
DMSO : 2 mg/mL (5.10 mM; ultrasonic and warming and heat to 60°C)
DMSO : 1 mg/mL (2.55 mM; ultrasonic and adjust pH to 3 with 0.1 M HCL)

Preparation Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mg</td>
<td>5 mg</td>
</tr>
<tr>
<td>1 mM</td>
<td>2.5500 mL</td>
<td>12.7502 mL</td>
</tr>
<tr>
<td>5 mM</td>
<td>0.5100 mL</td>
<td>2.5500 mL</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: ≥ 1.25 mg/mL (3.19 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 1.25 mg/mL (3.19 mM); Clear solution

BIOLICAL ACTIVITY

Description
P62-mediated mitophagy inducer is a mitophagy regulator which activates mitophagy without recruiting Parkin or collapsing ΔΨm and retains activity in cells devoid of a fully functional PINK1/Parkin pathway[1].

IC₅₀ & Target
mitophagy[1]

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

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