Dansylglycine

Cat. No.: HY-W141889
CAS No.: 1091-85-6
Molecular Formula: C₁₄H₁₆N₂O₄S
Molecular Weight: 308.35
Target: Amino Acid Derivatives
Pathway: Others
Storage: 4°C, protect from light
* In solvent: -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro
DMSO: 125 mg/mL (405.38 mM; Need ultrasonic)

Preparing Stock Solutions

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td></td>
<td>3.2431 mL</td>
<td>16.2153 mL</td>
<td>32.4307 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td></td>
<td>0.6486 mL</td>
<td>3.2431 mL</td>
<td>6.4861 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td></td>
<td>0.3243 mL</td>
<td>1.6215 mL</td>
<td>3.2431 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: ≥ 2.08 mg/mL (6.75 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.75 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Dansylglycine is a Glycine (HY-Y0966) derivative[1].

In Vitro
Amino acids and amino acid derivatives have been commercially used as ergogenic supplements. They influence the secretion of anabolic hormones, supply of fuel during exercise, mental performance during stress related tasks and prevent exercise induced muscle damage. They are recognized to be beneficial as ergogenic dietary substances[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES