Dabsyl chloride

Cat. No.: HY-101890
CAS No.: 56512-49-3
Molecular Formula: C₁₄H₁₄ClN₃O₂S
Molecular Weight: 323.8
Target: Others
Pathway: Others
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 : ≥ 5.2 mg/mL (16.06 mM)
* "≥" means soluble, but saturation unknown.

<table>
<thead>
<tr>
<th>Preparing Stock Solutions</th>
<th>Solvent Concentration</th>
<th>1 mg</th>
<th>5 mg</th>
<th>10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1 mM</td>
<td>3.0883 mL</td>
<td>15.4416 mL</td>
<td>30.8833 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>0.6177 mL</td>
<td>3.0883 mL</td>
<td>6.1767 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.3088 mL</td>
<td>1.5442 mL</td>
<td>3.0883 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: ≥ 0.52 mg/mL (1.61 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 0.52 mg/mL (1.61 mM); Clear solution

BIOLOGICAL ACTIVITY

Description
Dabsyl chloride is an amine derivatizing agent, able to give rise to stable products that can be easily monitored spectrophotometrically at 460 nm; Dabsyl chloride also used for labeling amino acids.

In Vitro
Dabsyl chloride can give rise to mono-Dabsyl and bis-Dabsyl derivatives in the presence of multiple amino groups. Furthermore with respect to OPA derivatization, Dabsyl chloride can react with primary and also with secondary amines[1].
**PROTOCOL**

**Cell Assay** [1]

Selected mouse brain samples from either cortical or striatal regions (100 mg wet weight) and neuroblastoma cells (SH-SY5Y) pellet derived from 25 cm² flask are treated with 500 μL of 0.1 M HCl containing 0.2% TDGA, sonicated for 10 min (only for brain tissue), and then centrifuged at 14000 g for 30 min. The supernatant is freeze-dried. 50 μL of reaction buffer and 100 μL of 15 mM Dabsyl chloride are added to the tube and derivatized.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

**REFERENCES**


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

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