2-Ketoglutaric acid

Cat. No.: HY-W013636
CAS No.: 328-50-7
Molecular Formula: $\text{C}_5\text{H}_6\text{O}_5$
Molecular Weight: 146.1
Target: Endogenous Metabolite
Pathway: Metabolic Enzyme/Protease
Storage: Powder
-20°C 3 years
4°C 2 years
In solvent
-80°C 6 months
-20°C 1 month

Solvent & Solubility

<table>
<thead>
<tr>
<th>Solvent</th>
<th>Concentration</th>
<th>Mass 1 mg</th>
<th>Mass 5 mg</th>
<th>Mass 10 mg</th>
</tr>
</thead>
<tbody>
<tr>
<td>H$_2$O</td>
<td>1 mM</td>
<td>6.8446 mL</td>
<td>34.2231 mL</td>
<td>68.4463 mL</td>
</tr>
<tr>
<td></td>
<td>5 mM</td>
<td>1.3689 mL</td>
<td>6.8446 mL</td>
<td>13.6893 mL</td>
</tr>
<tr>
<td></td>
<td>10 mM</td>
<td>0.6845 mL</td>
<td>3.4223 mL</td>
<td>6.8446 mL</td>
</tr>
</tbody>
</table>

Preparing Stock Solutions

In Vitro

H$_2$O : 50 mg/mL (342.23 mM; Need ultrasonic)

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

BIOLOGICAL ACTIVITY

Description

2-Ketoglutaric acid is an intermediate compound of the Krebs cycle and is also connected to glutamic acid and glutamine metabolisms through the transamination reactions.

IC$_{50}$ & Target

Human Endogenous Metabolite

REFERENCES


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