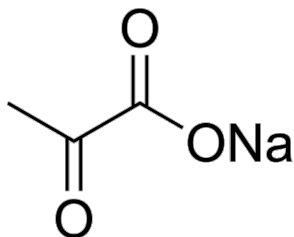


Sodium 2-oxopropanoate

货号: **B26690**



产品信息

生物活性	Sodium 2-oxopropanoate (Sodium pyruvate), a three-carbon metabolite of Glucose, is a compound produced in the glycolytic pathway. Sodium 2-oxopropanoate is a free radical scavenger that can scavenge ROS .
CAS	113-24-6
中文名称	丙酮酸钠
分子量	110.04
体外研究	<p>In the process of scavenging hydrogen peroxide, Sodium 2-oxopropanoate (Sodium pyruvate) is decarboxylated to lactate and hence diverted away from aerobic metabolism and further ROS generation. Under conditions in which pyruvate stimulated JNK1 activity, both mitochondrial and cytosolic ROS levels rose. An increase in JNK1 activity in a variety of different cell types over a range of pyruvate concentrations are observed.</p> <p>Sodium 2-oxopropanoate (Sodium pyruvate) is an effective scavenger of H_2O_2 as well as of $O_2^{\cdot-}$, thereby protecting the lens against oxidative stress and consequent cataract formation, under in vitro as well as in vivo conditions, Sodium 2-oxopropanoate has also been shown to protect the lens proteins against glycation by competitively inhibiting the initial reaction between the sugar carbonyl and the protein -NH₂.</p> <p>The accuracy of these methods have not been independently confirmed. They are for reference only.</p>
体内研究	
形式	Solid
运输条件	Room temperature in continental US; may vary elsewhere.
保存条件	4°C, sealed storage, away from moisture

溶解性	<p>In Vitro: H₂O : 100 mg/mL (908.76 mM); Need ultrasonic)</p> <p>配制储备液</p> <table border="1"> <thead> <tr> <th>浓度</th> <th>溶剂</th> <th>体积</th> <th>质量</th> </tr> </thead> <tbody> <tr> <td>1 mg</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5 mg</td> <td></td> <td></td> <td></td> </tr> <tr> <td>10 mg</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>1 mM 9.0876 mL 45.4380 mL 90.8760 mL 5 mM 1.8175 mL 9.0876 mL 18.1752 mL 10 mM 0.9088 mL 4.5438 mL 9.0876 mL</p> <p>*</p> <p>请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液；一旦配成溶液，请分装保存，避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)。-80°C 储存时，请在 6 个月内使用，-20°C 储存时，请在 1 个月内使用。</p> <p>In Vivo:</p> <p>请根据您的 实验动物 和 给药方式 选择适当的溶解方案。以下溶解方案都请先按照 In Vitro 方式配制澄清的储备液，再依次添加助溶剂：</p> <p>——为保证实验结果的可靠性，澄清的储备液可以根据储存条件，适当保存；体内实验的工作液，建议您现用现配，当天使用；以下溶剂前显示的百分比是指该溶剂在您配制终溶液中的体积占比；如在配制过程中出现沉淀、析出现象，可以通过加热和/或超声的方式助溶</p> <ul style="list-style-type: none"> 1. 请依序添加每种溶剂： PBS <p>Solubility: 50 mg/mL (454.38 mM); Clear solution; Need ultrasonic</p> <p>*以上所有助溶剂都可在 MCE 网站选购。</p>	浓度	溶剂	体积	质量	1 mg				5 mg				10 mg			
浓度	溶剂	体积	质量														
1 mg																	
5 mg																	
10 mg																	
纯度	≥99.0%																