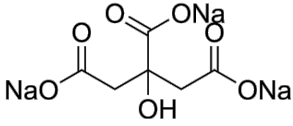


Citric acid trisodium

货号: **AYB26768**



产品信息

生物活性	Citric acid trisodium is a natural preservative and food tartness enhancer. Citric acid trisodium induces apoptosis and cell cycle arrest at G2/M phase and S phase. Citric acid trisodium cause oxidative damage of the liver by means of the decrease of antioxidative enzyme activities. Citric acid trisodium causes renal toxicity in mice.
CAS	68-04-2
中文名称	无水柠檬酸钠
分子量	258.07
体外研究	<p>Citric acid trisodium (0-12.5 mM; 24 h) shows antiproliferative activity in a dose dependent manner. Citric acid trisodium (12.5 mM; 72 h) induces apoptosis and cell cycle arrest at G2/M phase and S phase in a dosedependent manner. Citric acid trisodium (12.5 mM; 48 h) increases the expression of FAS, BAX, BID, AIF, EndoG, cytochrome c, PARP, GADD153, GRP78 and caspase-3, -8, -9, and decreases of BCL-2 and BCL-XI.</p> <p>The accuracy of these methods have not been independently confirmed. They are for reference only.</p> <p>Cell Viability Assay</p> <p>Cell Line: HaCaT cells Concentration: 0, 2.5, 5, 7.5, 10, 12.5 mM Incubation Time:24 h Result: Inhibited the cell viability in a dose dependent manner.</p> <p>Cell Cycle Analysis</p> <p>Cell Line: HaCaT cells Concentration: 12.5 mM Incubation Time: 0, 12, 24, 48, 72 h Result: Induced apoptosis and cell cycle arrest at G2/M phase and S phase in a dosedependent manner.</p> <p>Western Blot Analysis</p> <p>Cell Line: HaCaT cells Concentration: 12.5 mM Incubation Time: 12, 24, 48 h Result: Increased the expression of FAS, BAX, BID, AIF, EndoG, cytochrome c, PARP, GADD153, GRP78 and caspase-3, -8, -9, and decreased of BCL-2 and BCL-XI.</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 (387.49 mM; Need ultrasonic)</p> <p>配制储备液</p> <table> <thead> <tr> <th>浓度</th> <th>溶剂体积</th> <th>质量</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>3.8749 mL</td> <td>1 mg</td> </tr> <tr> <td>5 mM</td> <td>0.7750 mL</td> <td>5 mg</td> </tr> <tr> <td>10 mM</td> <td>0.3875 mL</td> <td>10 mg</td> </tr> </tbody> </table> <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。 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>	浓度	溶剂体积	质量	1 mM	3.8749 mL	1 mg	5 mM	0.7750 mL	5 mg	10 mM	0.3875 mL	10 mg
浓度	溶剂体积	质量											
1 mM	3.8749 mL	1 mg											
5 mM	0.7750 mL	5 mg											
10 mM	0.3875 mL	10 mg											
纯度	≥98.0%												