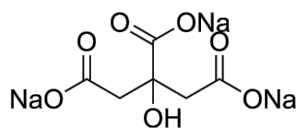


Citric acid trisodium

货号: **B26768**

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	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 dose dependent 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-XL. The accuracy of these methods have not been independently confirmed. They are for reference only. Cell Viability Assay 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. Cell Cycle Analysis 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 dose dependent manner. Western Blot Analysis 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-XL.
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	In Vitro: H₂O : 100 mg/mL (387.49 mM; Need ultrasonic) 配制储备液 <table><tr><td>浓度</td><td>溶剂</td><td>体积</td><td>质量</td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>1 mM</td><td>3.8749 mL</td><td>19.3746 mL</td><td>38.7492 mL</td><td></td><td></td><td></td></tr><tr><td>5 mM</td><td>0.7750 mL</td><td>3.8749 mL</td><td>7.7498 mL</td><td></td><td></td><td></td></tr><tr><td>10 mM</td><td>0.3875 mL</td><td>1.9375 mL</td><td>3.8749 mL</td><td></td><td></td><td></td></tr></table> * 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。	浓度	溶剂	体积	质量	1 mg	5 mg	10 mg	1 mM	3.8749 mL	19.3746 mL	38.7492 mL				5 mM	0.7750 mL	3.8749 mL	7.7498 mL				10 mM	0.3875 mL	1.9375 mL	3.8749 mL			
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纯度	≥98.0%																												