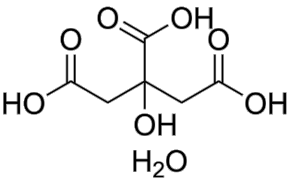


# Citric acid monohydrate

货号: B26966



## 产品信息

生物活性	Citric acid monohydrate is a natural preservative and food tartness enhancer. Citric acid monohydrate induces <b>apoptosis</b> and cell cycle arrest at G2/M phase and S phase. Citric acid monohydrate cause oxidative damage of the liver by means of the decrease of antioxidative enzyme activities. Citric acid monohydrate causes renal toxicity in mice.
CAS	5949-29-1
中文名称	一水柠檬酸
分子量	210.14
体外研究	<p>Citric acid monohydrate (0-12.5 mM; 24 h) shows antiproliferative activity in a dose dependent manner. Citric acid monohydrate (12.5 mM; 72 h) induces apoptosis and cell cycle arrest at G2/M phase and S phase in a dosedependent manner.</p> <p>Citric acid monohydrate (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.</p> <p><b>The accuracy of these methods have not been independently confirmed. They are for reference only.</b></p> <p>Cell Viability Assay</p> <p>Cell Line: HaCaT cells</p> <p>Concentration: 0, 2.5, 5, 7.5, 10, 12.5 mM</p> <p>Incubation Time:24 h</p> <p>Result: Inhibited the cell viability in a dose dependent manner.</p> <p>Cell Cycle Analysis</p> <p>Cell Line: HaCaT cells</p> <p>Concentration: 12.5 mM</p> <p>Incubation Time: 0, 12, 24, 48, 72 h</p> <p>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</p> <p>Concentration: 12.5 mM</p> <p>Incubation Time: 12, 24, 48 h</p> <p>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.</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	
纯度	≥98.0%