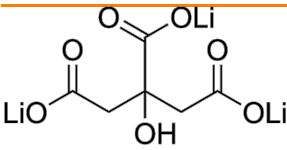


Lithium citrate tetrahydrate

货号: B26952



H₂O H₂O

H₂O H₂O

产品信息

生物活性	Lithium citrate (Litarex) tetrahydrate is the major active ingredient of Garcinia cambogia. Lithium citrate tetrahydrate competitively inhibits ATP citrate lyase with weight loss benefits. Lithium citrate tetrahydrate effectively inhibits stones formation and also inhibits HIF , and has antioxidation, anti-inflammation and anti-tumor effects.
CAS	6080-58-6
中文名称	柠檬酸三锂盐四水合物
分子量	281.98
体外研究	Lithium citrate tetrahydrate shows an HIF inhibitory effect compared with the control group in ARPE19 cells and 661W cells. Lithium citrate tetrahydrate can downregulate Hif1a and the downstream genes in ARPE19 cells and 661W cells. Lithium citrate tetrahydrate suppresses HIF-1α protein expression increased by CoCl₂ administration in ARPE19 cells and 661W cells. In chicken hepatocytes, Lithium citrate tetrahydrate decreases the accumulation of lipid droplets and accelerated energy metabolism. Lithium citrate tetrahydrate protects the cells from ER stress by increasing the antioxidant status and mitochondrial functions. The accuracy of these methods have not been independently confirmed. They are for reference only.
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 (354.64 mM) *"≥" means soluble, but saturation unknown. 配制储备液 <table><tr><th>浓度</th><th>溶剂</th><th>体积</th><th>质量</th><th>1 mg</th><th>5 mg</th><th>10 mg</th></tr><tr><td>1 mM</td><td>3.5464 mL</td><td>17.7318 mL</td><td>35.4635 mL</td><td></td><td></td><td></td></tr><tr><td>5 mM</td><td>0.7093 mL</td><td>3.5464 mL</td><td>7.0927 mL</td><td></td><td></td><td></td></tr><tr><td>10 mM</td><td>0.3546 mL</td><td>1.7732 mL</td><td>3.5464 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℃, 6 months; -20℃, 1 month (sealed storage, away from moisture)。-80℃ 储存时，请在 6 个月内使用，-20℃ 储存时，请在 1 个月内使用。 In Vivo: 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： ——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 1. 请依序添加每种溶剂： PBS Solubility: 50 mg/mL (177.32 mM); Clear solution; Need ultrasonic *以上所有助溶剂都可在 MCE 网站选购。	浓度	溶剂	体积	质量	1 mg	5 mg	10 mg	1 mM	3.5464 mL	17.7318 mL	35.4635 mL				5 mM	0.7093 mL	3.5464 mL	7.0927 mL				10 mM	0.3546 mL	1.7732 mL	3.5464 mL			
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