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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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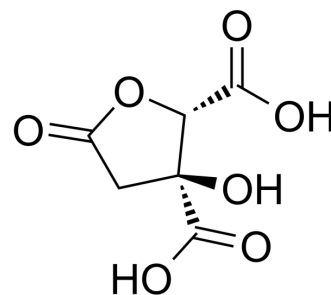
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(-)-Hydroxycitric acid lactone

Cat. No.:	HY-N7347
CAS No.:	27750-13-6
Molecular Formula:	C ₆ H ₆ O ₇
Molecular Weight:	190.11
Target:	ATP Citrate Lyase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1315.03 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	5.2601 mL	26.3006 mL	52.6011 mL
				5 mM	1.0520 mL	5.2601 mL	10.5202 mL
				10 mM	0.5260 mL	2.6301 mL	5.2601 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (10.94 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (10.94 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (10.94 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	(-)-Hydroxycitric acid lactone (Garcinia lactone) is an anti-obesity agent and a popular weight loss food supplement. (-)-Hydroxycitric acid lactone is a potent inhibitor of ATP-citrate lyase. (-)-Hydroxycitric acid lactone catalyzes the extramitochondrial cleavage of citrate to oxaloacetate and acetyl-CoA, limits the availability of acetyl-CoA units required for fatty acid synthesis ^{[1][2]} .
In Vivo	(-)-Hydroxycitric acid lactone (1000-3000mg/kg; fed for a period of 4 weeks) significantly decreases body weight at 2000 and 3000 mg/kg in chicken ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	1-day-old male broiler chickens ^[2]
Dosage:	1000, 2000, 3000 mg/kg
Administration:	Fed for a period of 4 weeks
Result:	Body weight and average daily gain (ADG) in the 2000 mg/kg and 3000 mg/kg were significantly lower.

REFERENCES

[1]. Han J, et al. (-)-Hydroxycitric acid reduced fat deposition via regulating lipid metabolism-related gene expression in broiler chickens. *Lipids Health Dis.* 2016 Feb 24;15:37.

[2]. Jena BS, et al. Chemistry and biochemistry of (-)-hydroxycitric acid from *Garcinia*. *J Agric Food Chem.* 2002 Jan 2;50(1):10-22.

Caution: Product has not been fully validated for medical applications. For research use only.

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