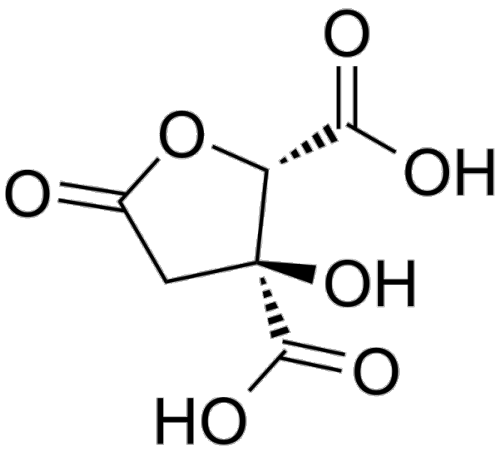
Product Data Sheet

Product Name: (-)-Hydroxycitric acid lactone
Cat. No.: GC63570

Chemical Properties

Cas. No.	27750-13-6		
Formula	$C_6H_6O_7$	M.Wt	190.11
Solubility	DMSO : 250 mg/mL (1315.03 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

(-)-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].

(-)-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].

Caution: Product has not been fully validated for medical applications. For research use only.
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[1]. Jena BS, et al. Chemistry and biochemistry of (-)-hydroxycitric acid from Garcinia. J Agric Food Chem. 2002 Jan 2;50(1):10-22.
[2]. Han J, et al. (-)-Hydroxycitric acid reduced fat deposition via regulating lipid metabolism-related geneexpression in broiler chickens. Lipids Health Dis. 2016 Feb 24;15:37.

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