

Product Data Sheet

Product Name: (-)-Hydroxycitric acid lactone

Cat. No.: GC63570

Chemical Properties

Cas. No. 27750-13-6

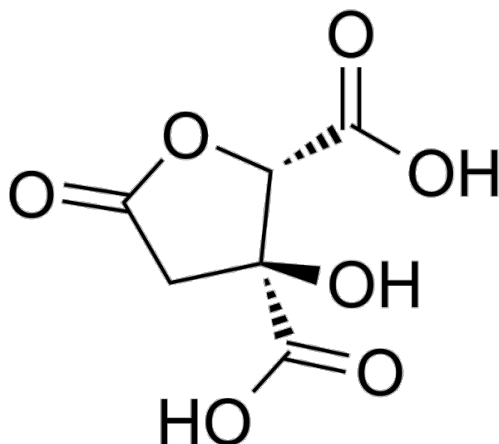
Formula $C_6H_6O_7$ M.Wt 190.11

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 gene expression in broiler chickens. Lipids Health Dis. 2016 Feb 24;15:37.

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