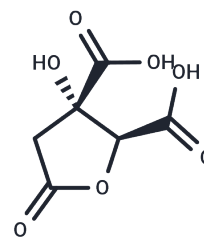


(-)-Hydroxycitric acid lactone

Chemical Properties

CAS No. :	27750-13-6
Formula:	C ₆ H ₆ O ₇
Molecular Weight:	190.11
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	(-)-Hydroxycitric acid lactone (Garcinia lactone) is an anti-obesity agent and a potent inhibitor of ATP citrate lyase, an enzyme that catalyzes the extramitochondrial cleavage of citrate to oxaloacetate and acetyl-CoA.
Targets(IC50)	ATP Citrate Lyase
In vivo	Garcinia lactone fed chicken for a period of 4 weeks significantly decreases body weight at 2000 and 3000 mg/kg[2].

Solubility Information

Solubility	DMSO: 60 mg/mL (315.61 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (10.52 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.2601 mL	26.3006 mL	52.6011 mL
5 mM	1.052 mL	5.2601 mL	10.5202 mL
10 mM	0.526 mL	2.6301 mL	5.2601 mL
50 mM	0.1052 mL	0.526 mL	1.052 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

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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