

(-)-Hydroxycitric acid

Chemical Properties

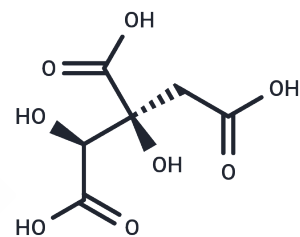
CAS No. : 27750-10-3

Formula: C₆H₈O₈

Molecular Weight: 208.12

Storage: Store at low temperature, Keep away from moisture
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 (Garcinia acid) is the principal acid found in the fruit rinds of Garcinia cambogia. It acts as a potent and competitive inhibitor of ATP citrate lyase, suppressing fatty acid synthesis, food intake, lipogenesis, and inducing weight loss. |
| Targets(IC50) | ATP Citrate Lyase |

Solubility Information

| | |
|------------|--|
| Solubility | 1M HCl: 15 mg/mL (72.07 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble) |
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Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 4.8049 mL | 24.0246 mL | 48.0492 mL |
| 5 mM | 0.961 mL | 4.8049 mL | 9.6098 mL |
| 10 mM | 0.4805 mL | 2.4025 mL | 4.8049 mL |
| 50 mM | 0.0961 mL | 0.4805 mL | 0.961 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

- B. S. Jena, et al. Chemistry and Biochemistry of (-)-Hydroxycitric Acid from Garcinia. J. Agric. Food Chem. 2002, 50, 1, 10-22.
- Hayamizu K, et al. Effects of garcinia cambogia (Hydroxycitric Acid) on visceral fat accumulation: a double-blind, randomized, placebo-controlled trial. Curr Ther Res Clin Exp. 2003 Sep;64(8):551-67.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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