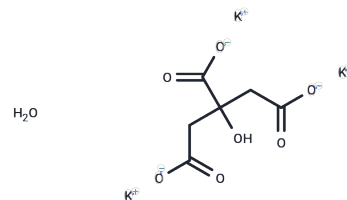


Hydroxycitric acid tripotassium hydrate

Chemical Properties

CAS No. :	6100-05-6
Formula:	C ₆ H ₇ K ₃ O ₈
Molecular Weight:	324.41
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Hydroxycitric acid tripotassium hydrate (Potassium citrate monohydrate) effectively inhibits stones formation and also inhibits HIF, and has antioxidation, anti-inflammation, and anti-tumor effects. Hydroxycitric acid tripotassium hydrate (Potassium citrate monohydrate) (Potassium citrate monohydrate) is the major active ingredient of Garcinia cambogia and a derivative of citric acid. Hydroxycitric acid tripotassium hydrate (Potassium citrate monohydrate) competitively inhibits ATP citrate lyase with weight loss benefits.
Targets(IC50)	ATP Citrate Lyase, HIF/HIF Prolyl-Hydroxylase, HIF
In vitro	Hydroxycitric acid suppresses HIF-1 α protein expression increased by CoCl ₂ administration in ARPE19 cells and 661W cells. Hydroxycitric acid decreases the accumulation of lipid droplets and accelerated energy metabolism in chicken hepatocytes. Hydroxycitric acid protects the cells from ER stress by increasing the antioxidant status and mitochondrial functions. Hydroxycitric acid shows an HIF inhibitory effect compared with the control group in ARPE19 cells and 661W cells. Hydroxycitric acid can downregulate Hif1 α and the downstream genes in ARPE19 cells and 661W cells.
In vivo	Hydroxycitric acid attenuates the oxidative stress induced by calcium oxalate crystallization. Hydroxycitric acid has inhibitory effects on calcium oxalate-induced inflammatory cytokines, such as MCP-1, IL-1 β , and IL-6. Moreover, Hydroxycitric acid alleviates tubular injury and apoptosis caused by calcium oxalate crystals. The administration of Hydroxycitric acid can suppress body weight gain and fat accumulation in animals. Hydroxycitric acid (100-200 mg/kg) treatment could reduce markers of renal impairment (Blood Urea Nitrogen and serum creatinine). Calcium oxalate crystal deposition in mice (male C57BL/6J mice) treated with Hydroxycitric acid is significantly decreased.

Solubility Information

Solubility	DMSO: 2.49 mg/mL (10 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0825 mL	15.4126 mL	30.8252 mL
5 mM	0.6165 mL	3.0825 mL	6.165 mL
10 mM	0.3083 mL	1.5413 mL	3.0825 mL
50 mM	0.0617 mL	0.3083 mL	0.6165 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.

Reference

Liu X, et al. Hydroxycitric acid inhibits renal calcium oxalate deposition by reducing oxidative stress and inflammation. Curr Mol Med. 2020 Jan 3.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only. Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481