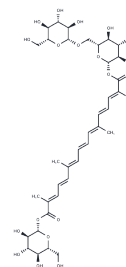


Crocin II

Chemical Properties

CAS No. :	55750-84-0
Formula:	C ₃₈ H ₅₄ O ₁₉
Molecular Weight:	814.82
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	Crocin II (Crocetin gentiobiosylglucosyl ester) has anti-inflammatory and anti-apoptotic effects against gastric ischemia-reperfusion injury in rats, the effect of crocin is mainly mediated by reducing the protein expression of iNOS and caspase-3. Crocin II can ameliorate CCl ₄ -induced liver injury via inhibition of inflammatory cytokines, caspase3 and oxidative stress along with modulation of liver metabolizing enzymes favoring elimination of CCl ₄ toxic metabolite. Crocin II has antihyperlipidemic effect, may be due to the inhibition of pancreatic lipase and crocin, and its metabolite, Crocin II , can improve hyperlipidemia. Crocin has antidepressant effects by increasing CREB, BDNF and VGF levels in hippocampus.
Targets(IC50)	Caspase,Endogenous Metabolite,NO Synthase,COX

Solubility Information

Solubility	DMSO: 120 mg/mL (147.27 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 (2.45 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	1.2273 mL	6.1363 mL	12.2726 mL
5 mM	0.2455 mL	1.2273 mL	2.4545 mL
10 mM	0.1227 mL	0.6136 mL	1.2273 mL
50 mM	0.0245 mL	0.1227 mL	0.2455 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

Lee IA, et al. Antihyperlipidemic effect of crocin isolated from the fructus of *Gardenia jasminoides* and its metabolite Crocetin. *Biol Pharm Bull.* 2005 Nov;28(11):2106-10.

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:34 Washington Street,Wellesley Hills,MA 02481