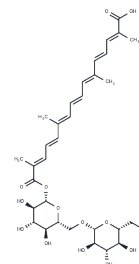


## Crocin III

## Chemical Properties

CAS No. :	55750-85-1
Formula:	C <sub>32</sub> H <sub>44</sub> O <sub>14</sub>
Molecular Weight:	652.68
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 III (Crocetin-mono-(β-D-gentiobiosyl)-ester) is a crocin derived from saffron ( <i>Crocus sativus</i> L.). Crocins inhibit the cell growth of tumor cells and have anti-inflammatory activity.
Targets(IC50)	Others

## Solubility Information

Solubility	DMSO: 50 mg/mL (76.61 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: 5 mg/mL (7.66 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	1.5321 mL	7.6607 mL	15.3214 mL
5 mM	0.3064 mL	1.5321 mL	3.0643 mL
10 mM	0.1532 mL	0.7661 mL	1.5321 mL
50 mM	0.0306 mL	0.1532 mL	0.3064 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

Yaya Hu, et al. Comparative anti-arthritic investigation of iridoid glycosides and crocetin derivatives from *Gardenia jasminoides* Ellis in Freund's complete adjuvant-induced arthritis in rats. *Phytomedicine*. 2019 Feb;53:223-233.

Xiangdong Pu, et al. In Vivo Production of Five Crocins in the Engineered *Escherichia coli*. *ACS Synth Biol*. 2020 May 15;9(5):1160-1168.

**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