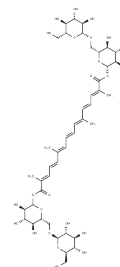


## Crocin

## Chemical Properties

CAS No. :	42553-65-1
Formula:	C44H64O24
Molecular Weight:	976.96
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Crocin (Gardenia Yellow) is a water-soluble carotenoid pigment of saffron ( <i>Crocus sativus</i> L. ) that has been used as a spice for flavoring and coloring food preparations, and in Chinese traditional medicine as an anodyne or tranquilizer. Crocin suppresses tumor necrosis factor (TNF)alpha-induced apoptosis of pheochromocytoma (PC12) cells by modulating mRNA expressions of Bcl-2 family proteins, which trigger downstream signals culminating in caspase-3 activation followed by cell death. Crocin prevented the activation of nSMase by enhancing the transcription of gamma-glutamylcysteinyl synthase, which contributes to a stable glutathione supply that blocks the activity of nSMase.
Targets(IC50)	Apoptosis,Others,Endogenous Metabolite,JAK

## Solubility Information

Solubility	DMSO: 100 mg/mL (102.36 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: 4 mg/mL (4.09 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	1.0236 mL	5.1179 mL	10.2358 mL
5 mM	0.2047 mL	1.0236 mL	2.0472 mL
10 mM	0.1024 mL	0.5118 mL	1.0236 mL
50 mM	0.0205 mL	0.1024 mL	0.2047 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

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