

Crocin I Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Crocin I

Catalog No.: CFN99927

Cas No.: 94238-00-3

Purity: >=97%

M.F: C₄₄H₆₄O₂₄

M.W: 976.96

Physical Description: Powder

Synonyms: Gardenia Yellow.

HO OH HO OH OH HO OH OH

[Intended Use]

- 1. Reference standards;
- 2. Pharmacological research;
- 3. Synthetic precursor compounds;
- 4. Intermediates & Fine Chemicals;
- 5. Dyes and Pigments;
- 6. Others.

[Source]

The stigma of Crocus sativus L.

[Biological Activity or Inhibitors]

Crocin 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.[1]

Crocin ameliorated CCI4-induced liver injury via inhibition of inflammatory cytokines,

caspase3 and oxidative stress along with modulation of liver metabolizing enzymes

favoring elimination of CCI4 toxic metabolite.[2]

Crocin has antihyperlipidemic effect, may be due to the inhibition of pancreatic lipase

and crocin, and its metabolite, crocetin, can improve hyperlipidemia. [3]

Crocin has antidepressant effects by increasing CREB, BDNF and VGF levels in

hippocampus.[4]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[5]

Mobile phase: Acetonitrile-0. 5% Phosphoric acid H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 440 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

[1] Mard S A, Nikraftar Z, Farbood Y, et al. Braz. J. Pharm. Sci, 2015, 51(3):637-42.

[2] Bahashwan S, Hassan M H, Aly H, et al. Journal of Taibah University Medical Sciences,

2014, 289(2):140-9.

[3] Lee I A, Lee J H, Baek N I, et al. Biol. Pharmaceut. Bull., 2005, 28(11):2106-10.

- [4] Hassani F V, Naseri V, Razavi B M, et al. Daru Journal of Faculty of Pharmacy Tehran University of Medical Sciences, 2014, 22(1):166-166.
- [5] Feng X C, Zhang R, Li H Y,et al. Chinese Journal of Experimental Traditional Medical Formulae, 2013, 19(24):85-9.

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