

Crocin II Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Crocin II

Catalog No.: CFN99928

Cas No.: 55750-84-0

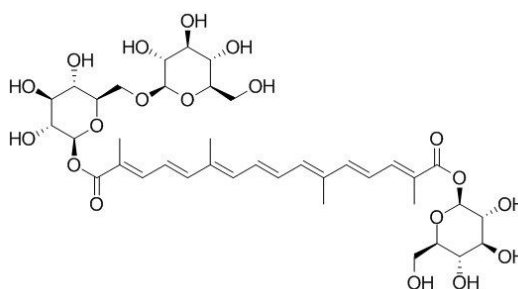
Purity: >=98%

M.F: C₃₈H₅₄O₁₉

M.W: 814.83

Physical Description: Dark red powder

Synonyms: 1-[(2E,4E,6E,8E,10E,12E,14E)-b-D-glucopyranosyl-2,6,11,15-tetramethyl-2,4,6,8,10,12,14-hexadecaheptaenedioate] 6-O-b-D-glucopyranosyl-b-D-Glucopyranose;
8,8'-Diapo- ψ , ψ -carotenedioic acid, β -D-; Crocetingentiobiosylglucosyl ester;
Glucopyranosyl 6-O- β -D-glucopyranosyl- β -D-.



[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 can ameliorate CCl₄-induced liver injury via inhibition of inflammatory cytokines, caspase3 and oxidative stress along with modulation of liver metabolizing enzymes favoring elimination of CCl₄ 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-0.1% 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. Pharm. 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] Zhang L J, Liu Q S, Liu Y, *et al. China Pharmacy*, 2011, 22(7):630-2.

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