

## Product Data Sheet

Product Name: Crocin IV

Cat. No.: GC62912

### Chemical Properties

Cas. No. 57710-64-2

Formula  $C_{32}H_{44}O_{14}$

M.Wt 652.68

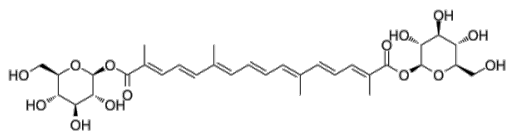
Solubility

Storage 4°C, protect from light

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



### Background

Crocin IV (Dicrocin), a crocetin glycoside, is a carotenoid pigment. Crocin IV has potent antioxidant activity[1].

Crocin IV (Dicrocin; 10 µM; 24 hours) has little or no effect on the prolongation of cell survival in PC12 cell[1]. Crocin IV enhances γ-GCS mRNA expression in serum-deprived and hypoxic PC12 cells[1]. Measurements of cell viability, peroxidized membrane lipids and caspase-3 activity showed that the rank order of the neuroprotective potency at a concentration of 10 µM is crocin>tricrocin>dicrocin and picrocrocin (the latter two crocins had a little or no potency)[1].

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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[1]. Takashi Ochiai, et al. Protective effects of carotenoids from saffron on neuronal injury in vitro and in vivo. Biochim Biophys Acta. 2007 Apr;1770(4):578-84.

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