
Product Data Sheet

Product Name: Crocin III
 Cat. No.: GC60729

Chemical Properties

Cas. No. 55750-85-1

SMILES OC[C@H]([C@H]([C@@H]([C@H]1O)O)O)[C@H]1OC[C@H]2O[C@H]([C@@H]([C@H]2O)O)OC(/C(C)=C/C=C/C(C)=C/C=C/C=C(C)/C=C/C=C(C)/C(O)=O)=O

Formula C₃₂H₄₄O₁₄ M.Wt 652.68

Solubility Storage Store at -20°C

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 III is a crocetin from saffron (*Crocus sativus* L.). Crocetins inhibit cell growth of tumor cells and has anti-inflammatory activity. Crocins serve as spices and coloring agents[1][2][3].

[1]. 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. [2]. J Escribano, et al. Crocin, safranal and picrocrocin from saffron (*Crocus sativus* L.) inhibit the growth of human cancer cells in vitro. *Cancer Lett.* 1996 Feb 27;100(1-2):23-30. [3]. 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.

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

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