

1-Dehydro-6-gingerdione Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 1-Dehydro-6-gingerdione

Catalog No.: CFN92298

Cas No.: 76060-35-0

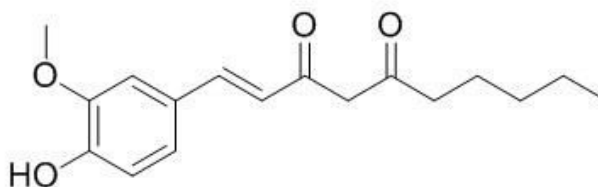
Purity: > 98%

M.F: C₁₇H₂₂O₄

M.W: 290.4

Physical Description: Cryst.

Synonyms: [6]-Dehydrogingerdione.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food research;
4. Cosmetic research;
5. Synthetic precursor compounds;
6. Intermediates & Fine Chemicals;
7. Ingredient in supplements, beverages;
8. Others.

[Source]

The rhizomes of *Zingiber officinale*.

[Biological Activity or Inhibitors]

1-Dehydro-6-gingerdione, isolated from ginger powder, exhibits antioxidant capacity [total phenolics (TP), ferric reducing antioxidant power (FRAP), oxygen radical absorbance capacity (ORAC) and cellular antioxidant activity (CAA assay)], it may effectively inhibit isolated digestive enzymes (α -glucosidase, pancreatic lipase and angiotensin converting enzyme) and inhibit the proliferation of colon and gastric adenocarcinoma cells.^[1]

1-Dehydro-6-gingerdione has anti-inflammatory activities, it can significantly suppress the expression of inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2) proteins in a concentration-dependent fashion. ^[2]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.1% Aqueous acetic acid, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 275 nm.

[Storage]

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

[References]

[1] Sakulnarmrat K, Srzednicki G, Konczak I. *Int. J. Food Sci. Tech.*, 2015, 50(10):2229-35.

[2] Li F, Nitteranon V, Tang X, *et al. Food Chem.*, 2012, 135(2):332-7.

[3] Zhang Y X, Li J S, Chen L H, *et al. Chinese Pharmaceutical Journal*, 2012, 47(6):

471-4.

[Contact]

Address:

S5-3 Building, No. 111, Dongfeng Rd.,
Wuhan Economic and Technological Development Zone,
Wuhan, Hubei 430056,
China

Email: info@chemfaces.com

Tel: +86-27-84237783

Fax: +86-27-84254680

Web: www.chemfaces.com

Tech Support: service@chemfaces.com