

Heraclenin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Heraclenin

Catalog No.: CFN98354

Cas No.: 2880-49-1

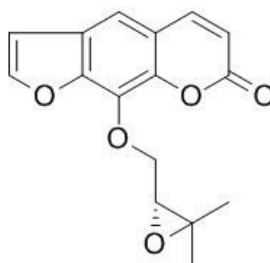
Purity: > 95%

M.F: C₁₆H₁₄O₅

M.W: 286.28

Physical Description: Powder

Synonyms:



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]

The fruits of *Citrus aurantium* L.

[Biological Activity or Inhibitors]

Heraclenin and imperatorin have an equally strong clastogenic effect .^[1]

Heracleenin can induce apoptosis in Jurkat leukemia cells.^[2]

Heracleenin has mutagenicity in *Chlamydomonas reinhardtii*.^[3]

(+)-Heracleenin displays significant levels of antiplasmodial and moderate levels of antimicrobial activities against the tested pathogenic strains(three Grampositive bacteria, *Bacillus subtilis*, *Bacillus sphaericus* and *Staphylococcus aureus*, and three Gram-negative bacteria, *Pseudomonas aeruginosa*, *Escherichia coli* and *Chromobacterium violaceum*).^[4]

Heracleenin has anticoagulant activity.^[5]

Heracleenin shows anti-inflammatory activity.^[6]

[Solvent]

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

[HPLC Method]^[7]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 254 nm.

[Storage]

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

[References]

[1] Abel G, Schimmer O. *Mutation Research/fundamental & Molecular Mechanisms of Mutagenesis*, 1986, 169(1-2):51-4.

[2] Giovanni Appendino , Federica Bianchi , Ammar Bader , *et al. J. Nat. Prod.*, 2004, 67 (4):532-6.

[3] Schimmer O, Abel G. *Mutation Research/fundamental & Molecular Mechanisms of*

Mutagenesis, 1986, 169(1-2):47-50.

[4] Gowri P M, Haribabu K, Kishore H, *et al. Curr. Sci.*, 2011, 100(11):1706-11.

[5] Mishra K C, Sharma R C, Sharma Y N, *et al. Indian J. Phy. Pharmacol.*, 1969, 13(3):
153-5.

[6] Garcíaargáez A N, Ramírez Apan T O, Delgado H P, *et al. Planta Med.*, 2000, 66(3):
279-81.

[7] Setzer W N, Vogler B, Bates R B, *et al. Phytochem.Anal.*, 2003, 14(1):54-9.

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