

Bergaptol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Bergaptol

Catalog No.: CFN98772

Cas No.: 486-60-2

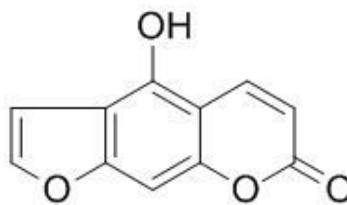
Purity: > 95%

M.F: C₁₁H₆O₄

M.W: 202.2

Physical Description: Yellow powder

Synonyms: 4-Hydroxy-7H-furo[3,2-g][1]benzopyran-7-one; 4-Hydroxybergapten; 5-Hydroxy-6,7-furanocoumarin.



[Intended Use]

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

[Source]

The root of *Notopterygium incisum*.

[Biological Activity or Inhibitors]

Bergaptol shows very good radical scavenging activity , it also is a potent inhibitor of debenzylolation activity of CYP3A4 enzyme with an IC 50 value of 24.92 microM.^[1]

Bergaptol induces dose-dependent cytotoxic effect on MCF-7 cell viability, shows IC50 value of 52.2 µM, it induces both early and late apoptosis in concentration-dependent manner.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: 1% Acetic acid in water- Acetonitrile,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 310 nm.

[Storage]

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

[References]

[1] Girennavar B, Jayaprakasha G K, Jadegoud Y, *et al. Bioorgan. Med. Chem.*, 2007, 15(11):3684-91.

[2] Ge Z C, Qu X, Yu H F, *et al. Bangl. J. Pharmacol.*, 2016, 11(2):489.

[3] Lin Y K, Sheu M T, Huang C H, *et al. J. Chromatogr. Sci.*, 2009, 47(3):211-5.

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