

Coumarin Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Coumarin

Catalog No.: CFN99552

Cas No.: 91-64-5

Purity: >=98%

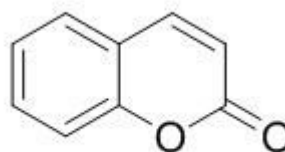
M.F: C₉H₆O₂

M.W: 146.15

Physical Description: White cryst.

Synonyms: O-hydroxycinnamic acid lactone ;5,6-Benzo-2-pyrone;

2H-1-benzopyran-2-one;1,2-Benzopyrone.



[Intended Use]

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

[Source]

The herbs of *Melilotus officinalis*.

[Biological Activity or Inhibitors]

Coumarin is a natural benzopyrone that is a potent inducer of aflatoxin B1-aldehyde reductase, has chemoprevention of aflatoxin B1 hepatocarcinogenesis.^[1]

Coumarin is an anticoagulant drug. ^[2]

Coumarin has antiulcerogenic activity, it may influence the secretion control mediated by the parasympathetic system. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile-H₂O=40:60 ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 274 nm.

[Storage]

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

[References]

[1] Kelly V P, Ellis E M, Manson M M, *et al. Cancer Res.*, 2000, 60(4):957-69.

[2] O'Reilly R A, Ohms J I, Motley C H. *J. Biol. Chem.*, 1969, 244(5):1303-5.

[3] Bighetti AE, Antônio MA, Kohn LK, *et al. Phytomedicine*, 2005, 12(1-2):72-7.

[4] Celeghini, Vilegas R M S, Janete H. Y.Lancas, *et al. J. Braz. Chem. Soc*, 2001, 12(6):706-9.

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