

Psoralen Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Psoralen

Catalog No.: CFN97142

Cas No.: 66-97-7

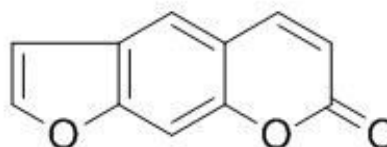
Purity: > 98%

M.F: C₁₁H₆O₃

M.W: 186.2

Physical Description: Powder

Synonyms: 7H-furo[3,2-g]chromen-7-one.



[Intended Use]

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

[Source]

The seeds of *Psoralea corylifolia* L.

[Biological Activity or Inhibitors]

Psoralen crosslinking between human immunodeficiency virus type 1 RNA and primer tRNA³(Lys).^[1]

Psoralens and UVA light selectively inhibit binding to the higher-affinity EGF receptors, an effect analogous to that of the phorbol ester tumor promoters, since EGF is a growth-regulatory peptide, the ability of psoralens and UVA light to inhibit EGF binding may underlie the biologic effects of these agents in the skin.^[2]

Psoralen induces DNA adducts are substrates for the base excision repair pathway in human cells.^[3]

Psoralen induces a persistent intracellular DNA damage at a specific site and to afford prolonged transcription inhibition.^[4]

[Solvent]

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

[HPLC Method]^[5]

Mobile phase: Methanol -0.4% Phosphoric acid H₂O=40:60;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 245 nm.

[Storage]

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

[References]

[1] Skripkin E, Isel C, Marquet R, *et al.* *Nucleic Acids Res.*, 1996, 24(3):509-14.

[2] Laskin J D, Lee E, Laskin D L, *et al.* *P. Natl .Acad .Sci. U. S. A.*, 1986, 83(21):8211-5.

[3] Couvéprivat S, Macé G, Rosselli F, *et al.* *Nucleic Acids Res.*, 2007, 35(17):5672-82.

[4] Guieysse A L, Praseuth D, Giovannangeli C, *et al.* *J. Mol .Biol.*, 2000, 296(2):373-83.

[5] Sawut N, Yang Y U, Halik S. *Modern Chinese Med.*, 2012, 14(10):16-9.

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