

Paulownin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Paulownin

Catalog No.: CFN99394

Cas No.: 13040-46-5

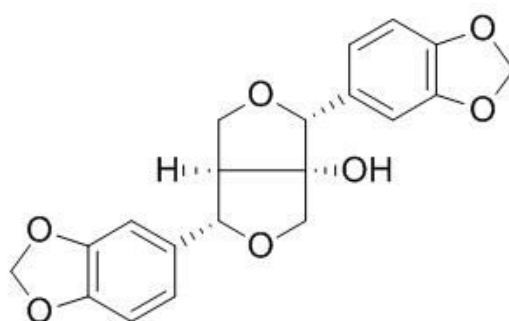
Purity: > 95%

M.F: C₂₀H₁₈O₇

M.W: 370.4

Physical Description: Powder

Synonyms: (3R,3aS,6S,6aR)-3,6-bis(1,3-benzodioxol-5-yl)-3,4,6,6a-tetrahydro-1H-furo[3,4-c]furan-3a-ol.



[Intended Use]

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

[Source]

The barks of *Paulownia tomentosa*.

[Biological Activity or Inhibitors]

(+)-Paulownin is active against the MCF-7 breast cancer cell line with IC₅₀ values of 14.0 uM.^[1]

Paulownin has the action of anti-inflammation,analgesia,immunity,hypoglycemia and has little toxicity.^[2]

Paulownin demonstrates inhibitory activities against H. pylori Cystathionine gamma-synthase (HpCGS) with IC₅₀ values of 19 +/- 2 microM, it can highly inhibit the growth of H. pylori and exhibit strong inhibitory specificity against H. pylori related to E. coli.^[3]

[Solvent]

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

[HPLC Method]

Not data available.

[Storage]

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

[References]

[1] Sumayyah M O A. *Universiti putra malaysia*, 2012.

[2] Li Y J, Zhong Z X, Zhou G F, *et al. Guangxi Sciences*, 2007, 14(4):405-6.

[3] Kong Y, Wu D, Bai H, *et al. J. Biochem.*,2008 Jan;143(1):59-68.

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