

Kakuol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Kakuol

Catalog No.: CFN93222

Cas No.: 18607-90-4

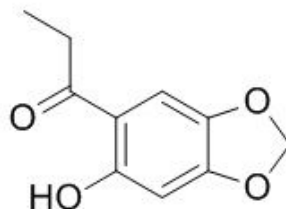
Purity: >=98%

M.F: C₁₀H₁₀O₄

M.W: 194.2

Physical Description: Powder

Synonyms: 1-(6-Hydroxy-1,3-benzodioxol-5-yl)propan-1-one; 1-[2-Hydroxy-4,5-(methylenedioxy)phenyl]propan-1-one.



[Intended Use]

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

[Source]

The roots of *Asarum sieboldii* Miq.

[Biological Activity or Inhibitors]

Kakuol has antifungal activity, it can completely inhibit the mycelial growth of *Botrytis cinerea* Pers ex Fr and *Cladosporium cucumerinum* Ellis & Arthur at 50 microg ml⁽⁻¹⁾ and 30 microg ml⁽⁻¹⁾, respectively.^[1]

kakuol and a derivative analogue are able to inhibit the DNA relaxation mediated by the human enzyme.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Methanol -H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 287 nm.

[Storage]

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

[References]

[1] Lee J Y, Moon S S, Hwang B K. *Pest Manag. Sci.*, 2005, 61(8):821-5.

[2] Castelli S, Vieira S, D'Annessa I, *et al. Arch. Biochem. Biophys.*, 2013, 530(1):7-12.

[3] Wang L L, Wang B B, Wen H, *et al. Journal of Shenyang Pharmaceutical University*, 2014, 31(5):363-8.

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