

6-Hydroxykaempferol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: 6-Hydroxykaempferol

Catalog No.: CFN92370

Cas No.: 4324-55-4

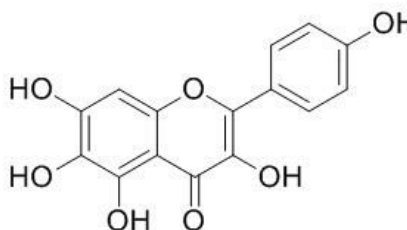
Purity: > 95%

M.F: C₁₅H₁₀O₇

M.W: 302.24

Physical Description: Yellow powder

Synonyms: 3,5,6,7,4'-Hydroxy flavone; Galetine; Norvogetin.



[Intended Use]

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

[Source]

The herbs of *Inula japonica* Thunb.

[Biological Activity or Inhibitors]

6-Hydroxykaempferol is a competitive inhibitor of tyrosinase compared to L-DOPA, it

shows also high antioxidant activities.^[1]

6-Hydroxykaempferol-7-O- β -glucopyranoside, and 6-hydroxykaempferol 7-O- β -(6"-galloylglucopyranoside) show significant antibacterial activity against *Micrococcus luteus*, *Staphylococcus aureus*, *Bacillus subtilis*, and *Pseudomonas pikettii*.^[2]

[Solvent]

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

[HPLC Method]^[3]

Mobile phase: Acetonitrile- 0.1M sodium acetate solution(pH is adjusted to 4.8 with glacial acetic acid)=10:90 ;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

The wave length of determination: 260 nm.

[Storage]

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

[References]

[1] Gao H, Nishida J, Saito S, *et al. Molecules*, 2007, 12(1):86-97.

[2] Shahzadi I, Shah M M. *Front. Pharmacol.*, 2014, 6:195.

[3] Stodulka P, Kolečkar V, Jun D, *et al. J. Chromatogr. Sci.*, 2008, 46(2):162-4.

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