Natural Products

ChemFaces

Norwogonin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Norwogonin

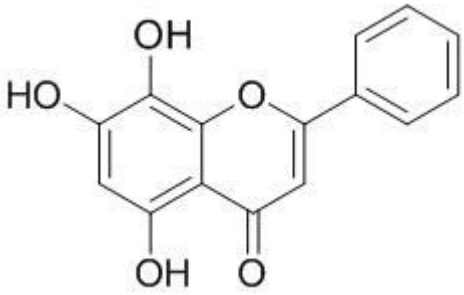
Catalog No.: CFN92218

Cas No.: 4443-09-8

Purity: > 95%

M.F: $C_{15}H_{10}O_5$

M.W: 270.2



Physical Description: Yellow powder

Synonyms: 5,7,8-Trihydroxy-2-phényl-4H-chromén-4-one.

[Intended Use]

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

[Source]

The roots of *Scutellaria baicalensis Georgi.*

[Biological Activity or Inhibitors]

Norwogonin exhibits potent cytotoxicity in leukemia HL-60 cells, the IC_{50} value is 21.7 +/-

1.5 microM.[1]

Norwogonin possesses strong anti-EV71 activity and decreases the formation of visible cytopathic effects, it also inhibits virus replication during the initial stage of virus infection, and it inhibits viral VP2 protein expression, thereby inhibiting viral capsid protein synthesis.[2]

Norwogonin has a significant antioxidant effect in 2,2'-azobis(2-amidinopropane hydrochloride) (AAPH)-induced haemolysis. [3]

[Solvent]

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

[HPLC Method][4]

Mobile phase: 0.5% Formic acid in water- Methanol,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 ℃;

The wave length of determination: 276 nm.

[Storage]

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

[References]

[1] Chow J M, Huang G C, Shen S C, *et al. J. Cell.Biochem., 2008, 103(5):1394-404.*

[2] Choi H J, Song H H, Lee J S, *et al. Biomol. Ther. (Seoul),2016,24(5): 552-8.*

[3] Liu Z Q, Luo X Y, Sun Y X, *et al. J. Pharm. Pharmacol., 2004, 56(12):1557-62.*

[4] Lu Y L, Wang M, Ji G. *Journal of Chinese Pharmaceutical Sciences, 2010, 45(4): 299-301.*

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