

Kaempferol 3-neohesperidoside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kaempferol 3-neohesperidoside

Catalog No.: CFN98415

Cas No.: 32602-81-6

Purity: > 95%

M.F: C₂₇H₃₀O₁₅

M.W: 594.5

Physical Description: Yellow powder

Synonyms:

HO OH OH OH

[Intended Use]

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

[Source]

The herbs of Delphinium grandiflorum L.

[Biological Activity or Inhibitors]

Kaempferol 3-neohesperidoside is one of the several compounds that have been reported

have insulin-like properties in terms of glucose lowerina.

3-neohesperidoside stimulates glycogen synthesis in rat soleus muscle by approximately

2.38-fold. the stimulatory effect of kaempferol 3-neophesperidoside on glycogen synthesis

was inhibited by wortmannin, the phosphatidylinositol 3-kinase (PI3K) inhibitor, and

enhanced by lithium chloride, a glycogen synthase kinase 3 (GSK-3) inhibitor; was also

nullified by PD98059, a specific inhibitor of mitogen-activated protein kinase (MEK) and by

calyculin A, an inhibitor of protein phosphatase 1 (PP1) activity; concluded that the PI3K

-GSK-3 pathway and MAPK-PP1 pathway are involved in the stimulatory kaempferol

3-neohesperidoside effect on glycogen synthesis in rat soleus muscle. [1]

Kaempferol 3-neohesperidoside possesses not only a significant anticancer effect against

HepG2 cells, but also an effective and a dose dependent hepatoprotective and antioxidant

activities due to the presence of flavonoids content.[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method][3]

Mobile phase: Acetonitrile-H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 280 nm.

[Storage]

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

[References]

[1] Cazarolli L H, Folador P, Pizzolatti M G, et al. Biochimie, 2009, 91(91):843-9.

[2] Azab S S, Abdel-Daim M, Eldahshan O A. Med. Chem. Res. 2013, 22(9):4269-77.

[3] Fernandes F, Valentão P, Sousa C, et al. Food Chem, 2007, 105(3):1003-10.

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