



Desmethylxanthohumol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Desmethylxanthohumol

Catalog No.: CFN92015

Cas No.: 115063-39-3

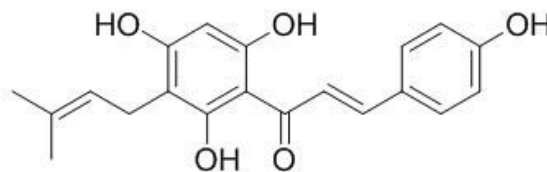
Purity: > 98%

M.F: C₂₀H₂₀O₅

M.W: 340.4

Physical Description: Cryst.

Synonyms: (E)-3-(4-hydroxyphenyl)-1-[2,4,6-trihydroxy-3-(3-methylbut-2-enyl)phenyl]-2-propen-1-one.



[Intended Use]

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

[Source]

The herbs of *Humulus lupulus* L.

[Biological Activity or Inhibitors]

Desmethylxanthohumol is a chalcone-type compound isolated from hops, it is present in extracts in a concentration of about 1/5 of the xanthohumol content.; it is a phytoestrogen with hormonal activity; it is a powerful apoptosis inducing agent in lymphoid leukemic cell assays and it acts as a chemoprotective compound activating oxidation and excretion of harmful xenobiotic.^[1]

Desmethylxanthohumol has oxygen radical antioxidant capacity.^[2]

Desmethylxanthohumol is prenylated flavonoid from hops effectively, can inhibit proliferation of prostate cancer cells in vitro.^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O, gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 35 °C;

The wave length of determination: 365 nm.

[Storage]

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

[References]

[1] Reinhard A. Diller, Herbert M. Riepl, Oliver Rose, *et al. Beer in Health and Disease Prevention*, 2008, 9.

[2] Vogel S, Ohmayer S, Brunner G, *et al. Bioorg. Med. Chem.*, 2008, 16(8):4286-93.

[3] Delmulle L, Bellahcène A, Dhooge W, *et al. Phytomedicine*, 2006, 13(9-10):732-4.

[4] Zhu LJ, Liu B, Shi R B. *Journal of Pharmaceutical Analysis*, 2008 (1): 32-5.

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