

Trilobatin Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Trilobatin

Catalog No.: CFN98658

Cas No.: 4192-90-9

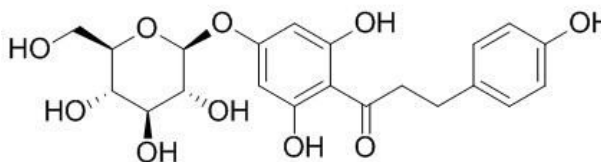
Purity: > 95%

M.F: C₂₁H₂₄O₁₀

M.W: 436.4

Physical Description: Powder

Synonyms: 1-[2,6-dihydroxy-4-[[[(2S,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)-2-oxanyloxy]phenyl]-3-(4-hydroxyphenyl)-1-propanone.



[Intended Use]

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

[Source]

The herbs of *Lithocarpus pachyphyllus*.

[Biological Activity or Inhibitors]

Trilobatin has a moderate antioxidant potential, it shows a strong inhibitory activity against α -glucosidase and a moderate inhibitory activity against α -amylase for management of postprandial hyperglycemia with less side effect.^[1]

Trilobatin has anti-inflammatory effect, it potentially inhibits the lipopolysaccharide (LPS)-induced inflammatory response by suppressing the NF- κ B signaling pathway.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-0.045%KH₂PO₄-0.05%Triethylamine, gradient elution ;

Flow rate: 0.8 ml/min ;

Column temperature: 35 °C;

The wave length of determination: 250 nm.

[Storage]

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

[References]

[1] Dong H Q, Li M, Zhu F, *et al. Food Chem.*, 2012, 130(2):261-6.

[2] Fan X, Zhang Y, Dong H, *et al. Food Chem.*, 2015, 166:609-15.

[3] Mao L, Shao S, Sun S, *et al. J. Sci. Food Agri.*, 2014, 2(12):1007-14.

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