



20(R)-Protopanaxatriol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: 20(R)-Protopanaxatriol

Catalog No.: CFN99980

Cas No.: 1453-93-6

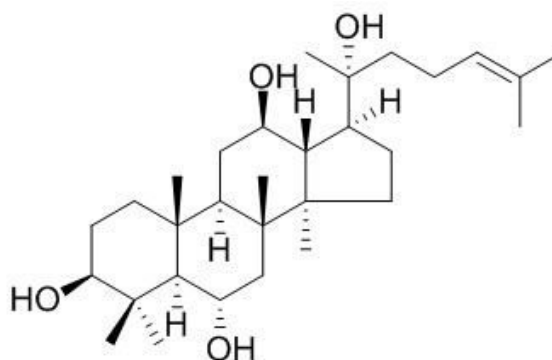
Purity: >=98%

M.F: C₃₀H₅₂O₄

M.W: 476.73

Physical Description: White powder

Synonyms: Protopanaxatriol; (3β,6α,12β,14β)-Dammar-24-ene-3,6,12,20-tetrol.



[Intended Use]

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

[Source]

The roots of *Panax ginseng* C. A. Mey.

[Biological Activity or Inhibitors]

20(R)-Protopanaxatriol shows anti-hyperglycaemic activities.^[1]

Protopanaxatriol has inhibitory effects on the enzyme catalytic activities of cyclooxygenases-1 and -2 (COX-1 and -2).^[2]

20(R)-Protopanaxatriol possesses cytotoxicities against three human cancer cell lines HeLa, A549 and MCF-7. ^[3]

[Solvent]

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

[HPLC Method]^[4]

HPLC-ELSD:

Mobile phase: Methanol -H₂O=83:17;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

Probe temperature :40°C;

Flow rate of gas : 3.0L/min;

Carrier gas: N₂.

[Storage]

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

[References]

[1] Yang N, Zhang S, Yang S, *et al. J. Funct. Foods*, 2016, 23:188-97.

[2] Yoo H H, Park J H. *Food Chem.*, 2012, 133(3):998-1000.

[3] Yang J, Yu X, Cai X X, *et al. Chemical Research in Chinese Universities*, 2016, 32(1): 1-6.

[4] Zhang X, Ma X, Si B, *et al. Biomed.Chromatogr.*, 2011, 25(6):646-51.

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