(20R)-Protopanaxdiol Datasheet

4th Edition (Revised in July, 2016)

[ Product Information ]

Name: (20R)-Protopanaxdiol
Catalog No.: CFN99979
Cas No.: 7755-01-3
Purity: > 98%
M.F: C₃₀H₅₂O₃
M.W: 460.74

Physical Description: White powder


[ 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**]

Protopanaxdiol is effective in preventing and healing obesity, fatty liver and hypertriglyceridemia in mice fed with a high-fat diet. [1]

Protopanaxdiol has the effect of anti-tumor through increasing the activity of body immunity, improving the lymphocyte transformation, the activity of NK cells and the contents of IL-2 significantly. [2]

Protopanaxdiol inhibits tumor interstitial microvascular density and its proliferation activity, finally inhibits tumor growth. [3]

Protopanaxdiol can inhibit expression of vascular endothelial growth factor (VEGF) and baso-fibroblast growth factor (bFGF) protein, finally inhibits tumor growth of liver. [4]

(20R)-Protopanaxdiol has protective effect on myocardial ischemia, which may be related to improving free radicals metabolism and myocardial metabolism, decreasing plasma TXA 2 levels, therefore, it may be an effective drug for the treatment of myocardial ischemia. [5]

[**Solvent**]

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

[**HPLC Method**] [6]

Mobile phase: Acetonitrile-0.2% Phosphoric acid H2O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 40 °C;

The wave length of determination: 203 nm.

[**Storage**]
2-8°C, Protected from air and light, refrigerate or freeze.

[ References ]


[ Contact ]

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