[Product Information]

Name: Panaxadiol
Catalog No.: CFN99981
Cas No.: 19666-76-3
Purity: > 98%
M.F: C₃₀H₅₂O₃
M.W: 460.73

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]**

Panaxadiol, a ginseng saponin with a dammarane skeleton, selectively interferes with the cell cycle in human cancer cell lines, it inhibits DNA synthesis in a dose-dependent manner with IC50 values ranging from 0.8 to 1.2 μM in SK-HEP-1 cells and HeLa cells, it selectively elevates p21WAF1/CIP1 levels and thereby arrests the cell cycle at G1/S phase by down-regulating Cyclin A–Cdk2 activity.[1]

Panaxadiol, a purified ginseng component, can enhance the anti-cancer effects of 5-fluorouracil in human colorectal cancer cells.[2]

Panaxadiol fraction and its ginsenosides can induce the antioxidant enzymes which are important for maintaining cell viability by lowering the level of oxygen radical generated from intracellular metabolism.[3]

Pretreatment with ginseng total saponin, especially panaxatriol, ameliorates I/R-induced myocardial damage and this protection is caused by reducing oxidative stress.[4]

**[Solvent]**

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

**[HPLC Method]**[5]

Mobile phase: Acetonitrile-H2O=40:60;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 230 nm.

**[Storage]**

2-8℃, Protected from air and light, refrigerate or freeze.
References


Contact

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