

Inotodiol Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Inotodiol

Catalog No.: CFN92367

Cas No.: 35963-37-2

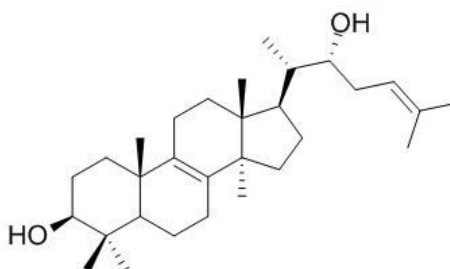
Purity: > 95%

M.F: C₃₀H₅₀O₂

M.W: 442.7

Physical Description: Powder

Synonyms: (22R)-5 α -Lanosta-8,24-diene-3 β ,22-diol.



[Intended Use]

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

[Source]

From *Inonotus obliquus*.

[Biological Activity or Inhibitors]

Inotodiol, a lanostane-type triterpenoid was isolated from the sclerotia of *Inonotus*

obliquus, exhibits the potent anti-tumor promoting activity in the in vivo carcinogenesis test. [1]

Inotodiol inhibits cell proliferation through apoptosis induction by activating caspase-3.[2]

Inotodiol has anti-inflammatory activities, it can inhibit significantly ear edema in mice produced by xylene at 10 mg/kg and reduce remarkably vascular permeability at 10 mg/kg.[3]

Inotodiol has antimutagenic and antioxidative activities. [4]

[Solvent]

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

[HPLC Method]^[5]

HPLC-ELSD

Mobile phase: Methanol- H₂O=92:8;

Flow rate: 1.0 ml/min;

Column temperature: 25 °C;

Drift tube temperature: 90 °C;

Flow rate of gas : 1.6 L/min.

[Storage]

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

[References]

[1] Nakata T, Yamada T, Taji S, *et al. Bioorg.Med. Chem.*, 2007, 15(1):257-64.

[2] Nomura M, Takahashi T A. *Anticancer Res.*, 2008, 28(5A):2691-6.

[3] Zhang X, Zhao F Q, Han G, *et al.Natural Product Research & Development*, 2010,22(3):433.

[4] Ham S S, Kim S H, Moon S Y, *et al.Mutation Res.*, 2009, 672(1):55-9.

[5] Du D Y, F Zhu, Chen X H, *et al. Phytochem. Analysis*, 2011, 22(5):419-23.

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