

Atractylenolide II Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Atractylenolide II

Catalog No.: CFN99945

Cas No.: 73069-14-4

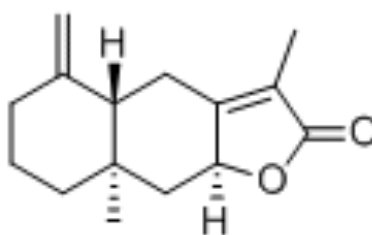
Purity: >=98%

M.F: C₁₅H₂₀O₂

M.W: 232.32

Physical Description: Powder

Synonyms: 2-Atractactylenolide; Asterolide; (4aS,8aR,9aS)-4a,5,6,7,8,8a,9,9a-Octahydro-3,8a-dimethyl-5-methylenenaphtho[2,3-b]furan-2(4H)-one.



[Intended Use]

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

[Source]

The rhizome of *Atractylodes macrocephala* Koidz.

[Biological Activity or Inhibitors]

Atractylenolide II (AT-II) is a sesquiterpene compound isolated from the dried rhizome of *Atractylodes macrocephala* (Baizhu in Chinese), which is traditionally prescribed for melanoma treatment by Chinese medicine practitioners; AT-II can inhibit B16 cells proliferation and induce G1 cell-cycle arrest and apoptosis in B16 melanoma cells.^[1]

Atractylenolide II can inhibit platelets activities and thrombus formation.^[2]

Atractylenolide II has antiinflammatory activity. ^[3]

[Solvent]

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

[HPLC Method]^[4]

Mobile phase: Acetonitrile- H₂O=60:40 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 237 nm.

[Storage]

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

[References]

[1] Ye Y, Wang H, Chu J H, *et al. J. Ethnopharmacol.*, 2011, 136(1):279-82.

[2] Chen Y, Wu X, Liu J, *et al. J. Am. Coll. Cardiol.*, 2015, 66(16):C44-C44.

[3] Endo K, Taguchi T, Taguchi F, *et al. Chem. Pharmaceut. Bull.*, 1980, 27(12):2954-8.

[4] Ge J, Wang Y W, Lu X C, *et al. Biomed. Chromatogr.*, 2007, 21(3):299-303.

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