

Actein Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Actein

Catalog No.: CFN99864

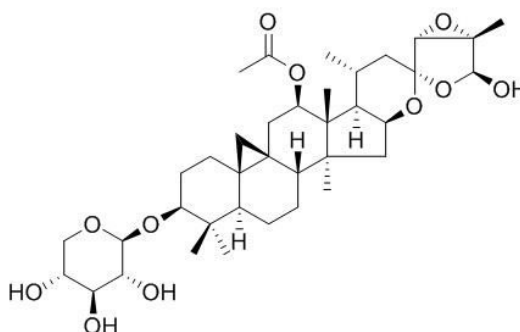
Cas No.: 18642-44-9

Purity: > 95%

M.F: C₃₇H₅₆O₁₁

M.W: 676.9

Physical Description: Powder



Synonyms: (3 β ,12 β ,16 β ,23R,24R,25S,26S))-12-(Acetyloxy)-16,23:23,26:24,25-triepox-26-hydroxy-9,19-cycloanostan-3-yl β -D-xylopyranoside.

[Intended Use]

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

[Source]

The roots of *Cimicifuga racemosa*.

[Biological Activity or Inhibitors]

Actein can inhibit the proliferation of human breast cancer cells, actein's ability to alter pathways involved in lipid disorders and carcinogenesis may make it a new agent for preventing and treating these major disorders.^[1]

Actein can cause a significant elevation of alkaline phosphatase activity, collagen synthesis, osteocalcin production, mineralization, and glutathione content in the cells, suggest that actein has a stimulatory effect on osteoblastic bone formation or has potential activity against osteoporosis, it also can prevent oxidative damage to osteoblasts in osteoporotic patients.^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

HPLC-ELSD:

Mobile phase: 67.5% Methanol in water- 80 % Methanol in water,gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

Drift tube temperature: 119 °C;

Flow rate of gas : 2.3 L/min;

The wave length of determination: 200 nm.

[Storage]

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

[References]

[1] Einbond L S, Soffritti M, Esposti D D, *et al. Fundam. Clin. Pharmacol.*, 2009 ,23(3): 311-21.

[2] Lee Y S, Choi E M. *J. Med. Food*, 2014, 17(4):414-23.

[3] Kong L, Li X, Zou H, *et al. J. Chromatogr. A*, 2001, 936(1-2):111-8.

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