[ **Product Information** ]

**Name:** Actein  
**Catalog No.:** CFN99864  
**Cas No.:** 18642-44-9  
**Purity:** > 95%  
**M.F:** C_{37}H_{56}O_{11}  
**M.W:** 676.9  
**Physical Description:** Powder  


[ **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 ]**


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