

Baohuoside I Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Baohuoside I

Catalog No.: CFN98525

Cas No.: 113558-15-9

Purity: >=98%

M.F: C₂₇H₃₀O₁₀

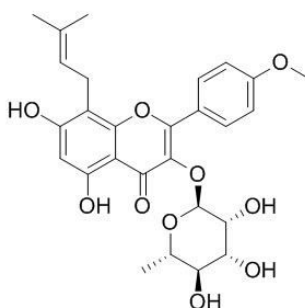
M.W: 514.52

Physical Description: Yellow powder

Synonyms: Icariin II;Icarisid II;

5,7-Dihydroxy-4'-methoxy-8-prenyl-3-(α -L-rhamnopyranosyloxy)flavone;

3-[(6-Deoxy-α-L-mannopyranosyl)oxy]-5,7-dihydroxy-2-(4-methoxyphenyl)-8-(3-methyl-2-buten-1-yl)-4H-1-benzopyran-4-one.



[Intended Use]

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

[Source]

The roots of *Epimedium brevicornu* Maxim.

[Biological Activity or Inhibitors]

Baohuoside I from *Periplocae Cortex* can inhibit the proliferation of Eca-109 cells, this effect associates with down-regulation expression of β -catenin, Cyclin D1, Survivin, and their proteins, which affects on the Wnt/ β -catenin signaling pathway.^[1]

Baohuoside I in combination with 5-FU exerted a synergistic effect on inhibiting proliferation and promoting apoptosis, this effect associated with decreased expression of Bcl-2 and increased expression of Bax.^[2]

Baohuoside I exhibits anti-inflammatory and anti-cancer activities; reactive oxygen species-mediated mitochondrial pathway is involved in Baohuoside I-induced apoptosis in human non-small cell lung cancer. ^[3]

Baohuoside-1 is a novel immunosuppressive molecule, can inhibit lymphocyte activation in vitro and in vivo.^[4]

Baohuoside aglycone possesses cardioprotective effect in prevention of ischemia/reperfusion injury and reduce the myocardial infraction, the mechanism is due to the reduction of the injury of free radicals.^[5]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[6]

Mobile phase: Acetonitrile- 1% Acetic acid H₂O, gradient elution ;

Flow rate: 0.8 ml/min;

Column temperature: 30 °C;

The wave length of determination: 270 nm.

[Storage]

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

[References]

- [1] Liu X X, Zhang Y Z, Li Z H, *et al.* *Chinese Traditional & Herbal Drugs*, 2011, 42(1):124-6.
- [2] Liu X X, Hao Y S, Li J M, *et al.* *Carcinogen.Teratogen. Mut.*, 2011, 23(5):367-9.
- [3] Song J, Shu L, Zhang Z, *et al.* *Chem.Biol. Interact.*, 2012, 199(1):9-17.
- [4] Ma A, Qi S, Xu D, *et al.* *Transplantation*, 2004, 78(6):831-8.
- [5] Liao M L, Zhang G Z, Xu Z, *et al.* *Guide of China Medicine*, 2012, 10(10):14-6.
- [6]Feng X C, Zhang R, Li H Y, *et al.* *Chinese Journal of Experimental Traditional Medical Formulae*, 2013, 19(24):85-9.

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