



Emodin-8-beta-D-glucoside Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Emodin-8-beta-D-glucoside

Catalog No.: CFN99572

Cas No.: 23313-21-5

Purity: > 98%

M.F: C₂₁H₂₀O₁₀

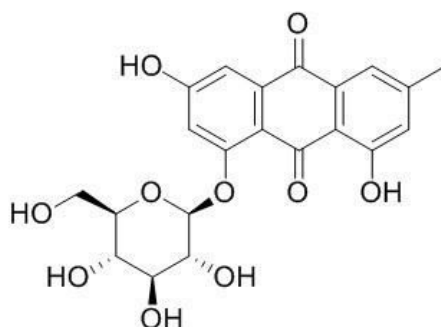
M.W: 432.41

Physical Description: Yellow powder.

Synonyms: 1-(β-D-Glucopyranosyloxy)-3,8-dihydroxy-6-methylantracene-9,10-dione;

8-(β-D-Glucopyranosyloxy)-1,6-dihydroxy-3-methylantraquinone;

8-O-β-D-Glucopyranosylemodin; Emodin 1-glucoside; Emodin glucoside B.



[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Others.

[Source]

The root and rhizome of *Rheum palmatum* L.

[Biological Activity or Inhibitors]

Emodin-8-O-beta-D-glucoside extracted from the traditional Chinese medicinal herb *Polygonum cuspidatum* Sieb. et Zucc is widely used to treat acute hepatitis possibly by antioxidative mechanisms; it is able to provide neuroprotection against cerebral ischemia-reperfused injury and glutamate induced neuronal damage through exerting antioxidative effects and inhibiting glutamate neurotoxicity.^[1]

Emodin-8-O- β -D-glucoside can promote proliferation and differentiation of osteoblastic MC3T3-E1 cells.^[2]

[Solvent]

Pyridine, DMSO, Methanol.

[HPLC Method]^[3]

Mobile phase: Acetonitrile-H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 254nm.

[Storage]

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

[References]

[1] Wang C, Zhang D, Ma H, *et al. Eur. J. Pharmacol.*, 2007, 577(1-3):58-63.

[2] Xiang MX, Xu Z, Su HW, *et al. Molecules*, 2011, 16(1):728-37.

[3] Koyama J, Morita I, Kobayashi N. *J. Chromatogr. A*, 2007, 1145(1-2):183-9.

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