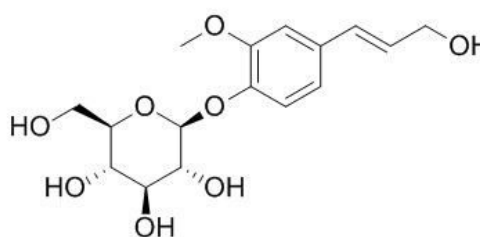


Coniferin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Coniferin**Catalog No.:** CFN98886**Cas No.:** 531-29-3**Purity:** > 95%**M.F:** C₁₆H₂₂O₈**M.W:** 342.34**Physical Description:** Powder**Synonyms:** 4-(3-Hydroxy-1-propenyl)-2-methoxyphenyl β-D-glucopyranoside;

4-Hydroxy-3-methoxy-1-(γ-hydroxypropenyl)benzene-4-D-glucoside;

Abietin; Coniferoside; Coniferyl alcohol β-D-glucoside.

**[Intended Use]**

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

[Source]The herbs of *Acanthopanax gracilistylus*.

[Biological Activity or Inhibitors]

Coniferin, the glucoside of the monolignol coniferyl alcohol; coniferin, syringin, and a synthetic coniferin analog are preferred substrates for the coniferin beta-glucosidase, the chromogenic coniferin analog show the exclusive presence of beta-glucosidase activity in the differentiating xylem, similar to peroxidase activity.^[1]

The extracts of the *Balanophora involucre* and trans-Coniferin have anti-oxidation effects. ^[2]

[Solvent]

Pyridine, Methanol, Ethanol, etc.

[HPLC Method]^[3]

Mobile phase: Methanol - 0.1 % Phosphoric acid H₂O=30:70 ;

Flow rate: 1.0 ml/min;

Column temperature: Room Temperature;

The wave length of determination: 290 nm.

[Storage]

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

[References]

[1] Dharmawardhana D P, Ellis B E, Carlson J E. *Plant Physiol.*, 1995, 107(2):331-9.

[2] Wang H,Zhang H Q,Wu H Y,*et al. Journal of China Three Gorges University*, 2009, 31(3):99-101.

[3] Elfahmi, Wirasutisna K R, Batterman S, *et al. Pharmacog. J.*, 2010, 2(17):74-80.

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