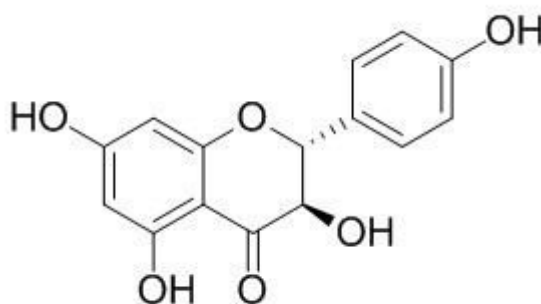


Aromadendrin Datasheet

4th Edition (Revised in July, 2016)**[Product Information]****Name:** Aromadendrin**Catalog No.:** CFN98736**Cas No.:** 480-20-6**Purity:** > 98%**M.F:** C₁₅H₁₂O₆**M.W:** 288.3**Physical Description:** Powder**Synonyms:** (2R,3R)-3,5,7-trihydroxy-2-(4-hydroxyphenyl)-3,4-dihydro-2H-1-benzopyran-4-one; Aromadendrol; Katuranin.**[Intended Use]**

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

[Source]The bark of *Eucalyptus calophylla*.

[Biological Activity or Inhibitors]

Aromadendrin, a flavonol, has been reported to possess a variety of pharmacological activities such as anti-inflammatory, antioxidant, and anti-diabetic properties, it exhibits anti-inflammatory activity through the suppression of nuclear translocation of NF- κ B and phosphorylation of JNK in LPS-stimulated RAW 264.7 macrophage cells.^[1]

Aromadendrin treatment induces adipogenesis by increases in PPAR γ 2 expression, resulting in stimulation of glucose uptake and ameliorated insulin resistance, suggests that it may represent a potential therapeutic candidate for the management of type 2 DM.^[2]

Aromadendrin, from prickly pear (*Opuntia ficus-indica*) root, has inhibitory activity on aldose reductase and the formation of advanced glycation end products.^[3]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[4]

Mobile phase: Acetonitrile-0.3% Glacial acetic acid H₂O, gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 292 nm.

[Storage]

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

[References]

[1] Lee J W, Kim N H, Kim J Y, *et al. Biomol. Ther.*, 2013, 21(3):216-21.

[2] Zhang W Y, Lee J J, Kim I S, *et al. Pharmacology*, 2011, 88(5-6):266-74.

[3] Jeon Y E, Yin X F, Dan B C, *et al. Food Sci. Biotechnol.*, 2011, 20(5):1283-8.

[4] Chen Y, Gong M, Zhang C, *et al.* *China Journal of Chinese Materia Medica*, 2010, 35(19):2565-7.

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