

Product Name : Aromadendrin**Synonyms** : —**Cat No.** : M22807**CAS Number** : 480-20-6**Molecular Formula** : C₁₅H₁₂O₆**Formula Weight** : 288.3**Chemical Name** : —

Description : Aromadendrin is a natural product. It induces apoptosis and inhibits Bcl-2 and Bcl-xL expression, possesses anti-inflammatory, antioxidant, and anti-diabetic properties, it exhibits anti-inflammatory activity. Aromadendrin, a flavonol, has been reported to possess a variety of pharmacological activities such as anti-inflammatory, antioxidant, and anti-diabetic properties. Aromadendrin significantly suppressed LPS-induced excessive production of pro-inflammatory mediators such as nitric oxide (NO) and PGE₂. In accordance, aromadendrin attenuated LPS-induced overexpression of iNOS and COX-2. In addition, aromadendrin significantly suppressed LPS-induced degradation of IκB, which sequesters NF-κB in cytoplasm, consequently inhibiting the nuclear translocation of pro-inflammatory transcription factor NF-κB. Aromadendrin significantly attenuated LPS-induced activation of JNK, but not ERK and p38, in a concentration-dependent manner. Aromadendrin exhibits anti-inflammatory activity through the suppression of nuclear translocation of NF-κB and phosphorylation of JNK in LPS-stimulated RAW 264.7 macrophage cells.

Pathway : Angiogenesis**Target** : Bcl-2**Receptor** : Bcl-2; Bcl-xL**Solubility** : DMSO: 120 mg/mL (416.31 mM; Need ultrasonic); H₂O: < 0.1 mg/mL (insoluble)**SMILES** : O=C1C2=C(O)C=C(O)C=C2O[C@@H](C3=CC=C(O)C=C3)[C@@H]1O**Storage** : (-20°C)**Stability** : ≥ 2 years**Reference** :

1. Stimulation of glucose uptake and improvement of insulin resistance by aromadendrin. *Pharmacology*. 2011;88(5-6):266-74.