Natural Products

ChemFaces

Kaurenoic acid Datasheet

4th Edition (Revised in July, 2016)

[Product Information]

Name: Kaurenoic acid

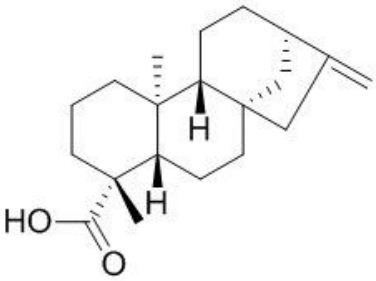
Catalog No.: CFN97703

Cas No.: 6730-83-2

Purity: > 98%

M.F: $C_{20}H_{30}O_2$

M.W: 302.46



Physical Description: Powder

Synonyms: Cunabic acid; Kaurane-16-ene-18-oic acid; (-)-Kaur-16-en-18-oic acid; ent-16-Kauren-19-oic acid.

[Intended Use]

1. Reference standards;
2. Pharmacological research;
3. Food and cosmetic research;
4. Synthetic precursor compounds;
5. Intermediates & Fine Chemicals;
6. Ingredient in supplements, beverages;
7. Others.

[Source]

The herb of *Ricinocarpus stylosus.*

[Biological Activity or Inhibitors]

Kaurenoic acid, a diterpene isolated from Copaifera langsdorffii oleo-resin, has cytotoxic and embryotoxic effects.[1]

Kaurenoic acid has anti-inflammatory potential in acetic acid-induced colitis, decreases in MDA level, an indicator of lipoperoxidation in colon tissue. [2]

Kaurenoic acid exerts a uterine relaxant effect acting principally through calcium blockade and in part, by the opening of ATP-sensitive potassium channels.[3]

Kaurenoic acid exhibits an analgesic effect in a consistent manner and that its mechanisms involve the inhibition of cytokine production and activation of the NO-cyclic GMP-protein kinase G-ATP-sensitive potassium channel signaling pathway.[4]

Kaurenoic acid derivatives has antimicrobial activity of substituted on carbon-15 at concentrations greater than or equal to 250 micrograms/ml.[5]

Kaurenoic acid has inhibitory effects on LPS-induced inflammatory response in RAW264.7 macrophages.[6]

[Solvent]

Chloroform, Dichloromethane, DMSO, Acetone, Methanol.

[HPLC Method][7]

Mobile phase: Acetonitrile-Phosphoric acid H2O(pH 3.0), gradient elution;

Flow rate: 1.0 ml/min;

Column temperature: 35 ℃;

The wave length of determination: 210 nm.

[Storage]

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

[References]

[1] Costa-Lotufo L V, Cunha G M A, Farias P A M, *et al. Toxicon, 2002, 40(8):1231-4.*

[2] Paiva L A F, Gurgel L A, Silva R M, *et al. Vascular Pharmacol., 2002, 39(6):303-7.*

[3] De A C K M, Paiva L A F, Santos F A, *et al. Phytother .Res., 2003, 17(4):320-4*.

[4] Mizokami S S, Arakawa N S, Ambrosio S R, *et al. J. Nat. Prod., 2012, 75(5):896-904.*

[5] Davino S C, Giesbrecht A M, Roque N F. *Brazilian Journal of Medical and Biological Research, 1989, 22(9):1127-9.*

[6] Ran J C, Shin E M, Jung H A, *et al. Phytomed. Int. J. Phytother. Phytopharmacol., 2011, 18(8-9):677-82.*

[7] Fucina G, Block L C, Baccarin T, *et al. Talanta, 2012, 101(22):530-6.*

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