Natural Products

ChemFaces

Cannabigerol Datasheet

5th Edition (Revised in January, 2017)

[Product Information]

Name: Cannabigerol

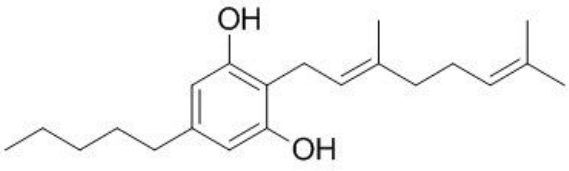
Catalog No.: CFN98287

Cas No.: 25654-31-3

Purity: > 95%

M.F: $C_{21}H_{32}O_2$

M.W: 316.5



Physical Description: Powder

Synonyms:2-[(2E)-3,7-dimethylocta-2,6-dienyl]-5-pentylbenzene-1,3-diol.

[Intended Use]

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

[Source]

The herbs of *Cannabis sativa.*

[Biological Activity or Inhibitors]

Cannabigerol exhibits the highest growth-inhibitory activity against the cancer cell lines.[1]

Cannabichromene and cannabigerol related compounds have antimicrobial activities.[2]

Cannabigerol is a novel, well-tolerated appetite stimulant in pre-satiated rats.[3]

Cannabigerol is a transient receptor potential (TRP) M8 (TRPM8) antagonist, it can potently block TRPM8, activate TRPA1, TRPV1 and TRPV2 channels, block 5-hydroxytryptamine receptor 1A (5-HT1A) receptors and inhibit the reuptake of endocannabinoids; in vivo, cannabigerol can inhibit the growth of xenograft tumours as well as chemically induced colon carcinogenesis, it hampers colon cancer progression in vivo and selectively inhibits the growth of CRC cells, an effect shared by other TRPM8 antagonists.[4]

[Solvent]

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

[HPLC Method][5]

Mobile phase: 50 mM Ammonium formate buffer pH 3.75 with 10% acetonitrile- 90% Acetronitrile in water,gradient elution;

Flow rate:1.0 ml/min;

Column temperature: 25℃;

The wave length of determination:272 nm.

[Storage]

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

[References]

[1] Baek S H, Kim Y O, Kwag J S, *et al. Arch. Pharm. Res.,1998,21(3):353-6.*

[2] Eisohly H N, Turner C E, Clark A M, *et al. J. Pharm. Sci.,1982 Dec;71(12):1319-23.*

[3] Brierley D I, Samuels J, Duncan M, *et al. Psychopharmacology,2016,233(19):1-11.*

[4] Borrelli F, Pagano E, Romano B, *et al. Carcinogenesis,2014,35(12):2787-97.*

[5] Swift W, Wong A, Li K M, *et al. Plos One,2013, 8(7):e70052.*

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