

Certificate of Analysis

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Product Name: Cannabigerol

Catalog No.: 3021

Batch No.: 2

CAS Number: 25654-31-3

IUPAC Name: 2-[(2E)-3,7-Dimethyl-2,6-octadienyl]-5-pentyl-1,3-benzenediol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₃₂O₂

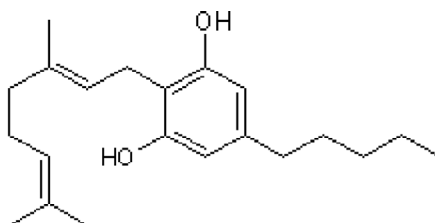
Batch Molecular Weight: 316.48

Physical Appearance: Off-white solid

Solubility: ethanol to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Cannabigerol is a partial agonist of CB₂ and CB₁ receptors (K_i values are 337 and 440 nM respectively). Also exhibits α₂-adrenoceptor agonist activity (EC₅₀ = 0.2 nM in mouse brain membranes).

Physical and Chemical Properties:

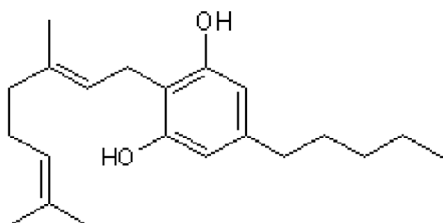
Batch Molecular Formula: C₂₁H₃₂O₂

Batch Molecular Weight: 316.48

Physical Appearance: Off-white solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

ethanol to 100 mM

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Cascio *et al* (2010) Evidence that the plant cannabinoid cannabigerol is a highly potent α₂-adrenoceptor agonist and moderately potent 5HT_{1A} receptor antagonist. *Br.J.Pharmacol.* **159** 129. PMID: 20002104.

Gauson *et al* (2007) Cannabigerol behaves as a partial agonist at both CB₁ and CB₂ receptors. *Symposium on the Cannabinoids* 206.

Pertwee The diverse CB₁ and CB₂ receptor pharmacology of three plant cannabinoids: Δ⁹-tetrahydrocannabinol, cannabidiol and Δ⁹-tetrahydrocannabivarin. *Br.J.Pharmacol.* **153** 199. PMID: 17828291.

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