

Product Name: Cannabinol

Catalog No.: 3130

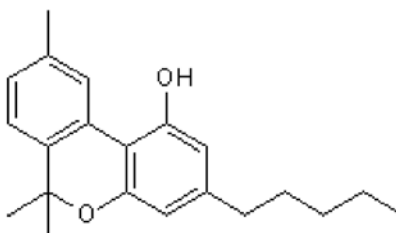
Batch No.: 2

CAS Number: 521-35-7

IUPAC Name: 6,6,9-Trimethyl-3-pentyl-6*H*-benzo[*c*]chromen-1-ol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₂₆O₂
Batch Molecular Weight: 310.43
Physical Appearance: White solid
Solubility: DMSO to 50 mM
ethanol to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity

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

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Description:

CB₂ and CB₁ receptor agonist (K_i values are 126 and 211 nM respectively). Inhibits adenylyl cyclase (EC₅₀ values are 120 and 261 nM for CB₁ and CB₂ receptors respectively) and suppresses immune cell function. Major constituent of cannabis; displays little or no psychotropic activity.

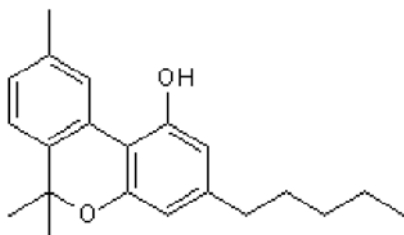
Physical and Chemical Properties:

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Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 10 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. Our standard recommendations are:

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.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

References:

Zygmunt *et al* (2002) Delta 9-tetrahydrocannabinol and cannabinol activate capsaicin-sensitive sensory nerves via a CB₁ and CB₂ cannabinoid receptor-independent mechanism. *J.Neurosci.* **22** 4720. PMID: 12040079.

Herring *et al* (1998) Inhibition of the cyclic AMP signaling cascade and nuclear factor binding to CRE and kB elements by cannabinol, a minimally CNS-active cannabinoid. *Biochem.Pharmacol.* **55** 1013. PMID: 9605425.

Rhee *et al* (1997) Cannabinol derivatives: binding to cannabinoid receptors and inhibition of adenylyl cyclase. *J.Med.Chem.* **40** 3228. PMID: 9379442.

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