

Product Name: (-)-5'-DMH-CBD

Catalog No.: 1481

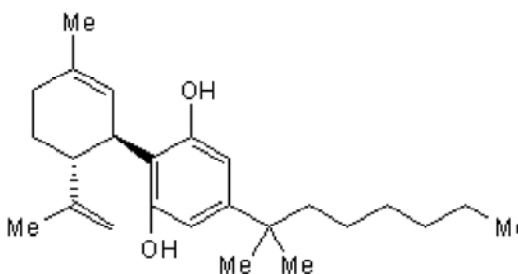
Batch No.: 2

CAS Number: 97452-63-6

IUPAC Name: 5-(1,1-Dimethylheptyl)-2-[(1*R*,6*R*)-3-methyl-6-(1-methylethenyl)-2-cyclohexen-1-yl]-1,3-benzenediol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₅ H ₃₈ O ₂
Batch Molecular Weight:	370.57
Physical Appearance:	Pale brown liquid
Solubility:	Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)
Storage:	Desiccate at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.3 (Ethyl acetate:Petroleum ether [1:9])
HPLC:	Shows >98% purity
¹H NMR:	Consistent with structure
Optical Rotation:	[α] _D = -68 (Concentration = 1, Solvent = Dichloromethane)

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

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Description:

Anandamide membrane transport inhibitor ($IC_{50} = 14 \mu M$) that is relatively metabolically stable. Displays some affinity for CB_2 receptors but has only weak affinity for CB_1 receptors and has no activity at VR_1 receptors or FAAH. Anticonvulsive in vivo following systemic administration.

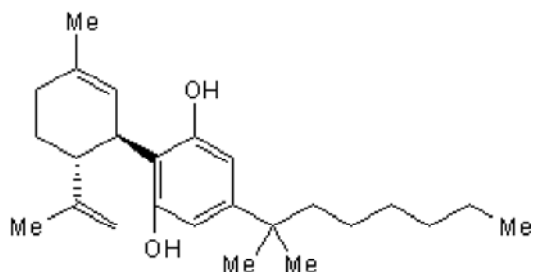
Physical and Chemical Properties:

Batch Molecular Formula: $C_{25}H_{38}O_2$

Batch Molecular Weight: 370.57

Physical Appearance: Pale brown liquid

Batch Molecular Structure:



References:

Bisogno *et al* (2001) Molecular targets for cannabidiol and its synthetic analogues: effect on vanilloid VR_1 receptors and on the cellular uptake and enzymatic hydrolysis of anandamide. *Br.J.Pharmacol.* **134** 845. PMID: 11606325.

Leite *et al* (1982) Anticonvulsant effects of the (-) and (+)isomers of cannabidiol and their dimethylheptyl homologs. *Pharmacology* **24** 141. PMID: 7071126.

Storage: Desiccate at $-20^{\circ}C$

Solubility & Usage Info:

Soluble in ethanol (supplied pre-dissolved in anhydrous ethanol, 5mg/ml)

This product is supplied dissolved in anhydrous ethanol at a concentration of 5mg/ml

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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