

**Product Name:** JWH 133

**Catalog No.:** 1343

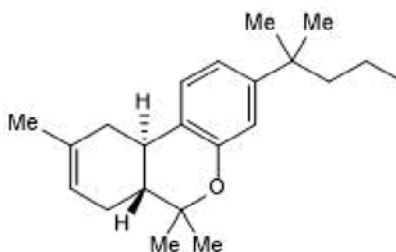
**Batch No.:** 10

CAS Number: 259869-55-1

IUPAC Name: (6a*R*,10a*R*)-3-(1,1-Dimethylbutyl)-6a,7,10,10a-tetrahydro-6,6,9-trimethyl-6*H*-dibenzo[*b,d*]pyran

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>22</sub>H<sub>32</sub>O  
**Batch Molecular Weight:** 312.49  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 100 mM  
DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.8% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = -184 (Concentration = 1.00, Solvent = Chloroform)  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	84.56	10.32	0
Found	84.63	10.53	0.1

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

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**Description:**

JWH 133 is a potent CB<sub>2</sub> selective agonist (K<sub>i</sub> = 3.4 nM). Approx. 200-fold selective over CB<sub>1</sub> receptors. Active in vivo, reducing spasticity in a murine model of multiple sclerosis. Activity also enhances the release of IL-10 by LPS/IFN-γ-stimulated macrophages and results in downregulation of the IL-12 subunit p40.

**Physical and Chemical Properties:**

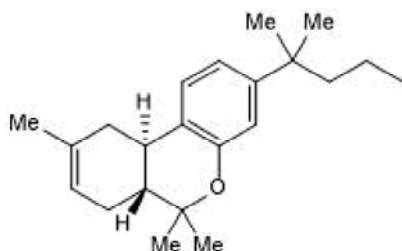
Batch Molecular Formula: C<sub>22</sub>H<sub>32</sub>O

Batch Molecular Weight: 312.49

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

ethanol to 100 mM

DMSO to 20 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.

**References:**

**Correa *et al*** (2005) Activation of cannabinoid CB<sub>2</sub> receptor negatively regulates IL-12p40 production in murine macrophages: role of IL-10 and ERK1/2 kinase signaling. *Br.J.Pharmacol.* **145** 441. PMID: 15821753.

**Baker *et al*** (2000) Cannabinoids control spasticity and tremor in a multiple sclerosis model. *Nature* **404** 84. PMID: 10716447.

**Huffman *et al*** (1999) 3-(1'-Dimethylbutyl)-1-deoxy-Δ<sup>8</sup>-THC and related compounds: synthesis of selective ligands for the CB<sub>2</sub> receptor. *Bioorg.Med.Chem.* **7** 2905. PMID: 10658595.

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