

**Product Name:** HU 308

**Catalog No.:** 3088

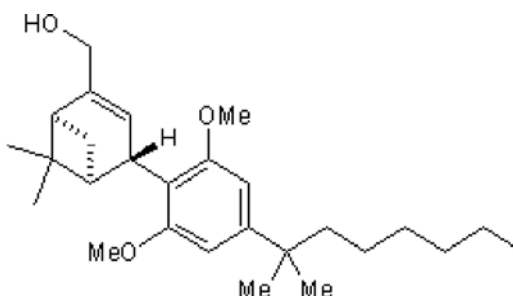
**Batch No.:** 11

CAS Number: 256934-39-1

IUPAC Name: (1S,4S,5S)-4-[4-(1,1-Dimethylheptyl)-2,6-dimethoxyphenyl]-6,6-dimethylbicyclo[3.1.1]hept-2-ene-2-methanol

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>27</sub>H<sub>42</sub>O<sub>3</sub>·½H<sub>2</sub>O  
**Batch Molecular Weight:** 423.63  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 100 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.9% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +112.6 (Concentration = 2, Solvent = Chloroform)  
**Microanalysis:**

	Carbon Hydrogen Nitrogen		
Theoretical	76.55	10.23	
Found	76.65	10.25	

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

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**Description:**

HU 308 is a potent and selective CB<sub>2</sub> receptor agonist (K<sub>i</sub> values are 22.7 nM and > 10 μM for CB<sub>2</sub> and CB<sub>1</sub> receptors respectively, EC<sub>50</sub> = 5.57 nM). Displays antiallodynic activity in the rat hindpaw incision model of postoperative pain. Also neuroprotective and improves motor performance in a mouse model of Huntington's Disease.

**Physical and Chemical Properties:**

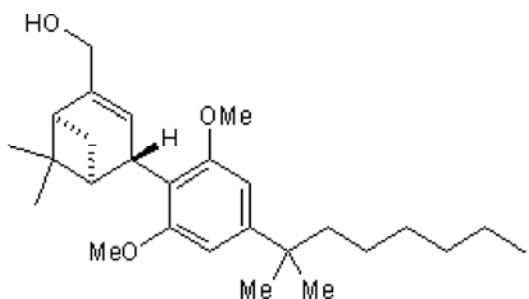
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Batch Molecular Weight: 423.63

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 100 mM  
ethanol 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. 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:**

**Palazuelos *et al*** (2009) Microglial CB<sub>2</sub> cannabinoid receptors are neuroprotective in Huntington's disease excitotoxicity. *Brain* **132** 3152. PMID: 19805493.

**LaBuda *et al*** (2005) Cannabinoid CB<sub>2</sub> receptor agonist activity in the hindpaw incision model of postoperative pain. *Eur.J.Pharmacol.* **527** 172. PMID: 16316653.

**Hanus *et al*** (1999) HU-308: a specific agonist for CB<sub>2</sub>, a peripheral cannabinoid receptor. *Proc.Natl.Acad.Sci.USA* **96** 14228. PMID: 10588688.

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