

Product Name: HU 308

Catalog No.: 3088

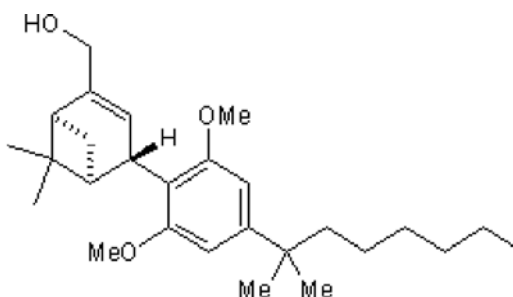
Batch No.: 6

CAS Number: 256934-39-1

IUPAC Name: 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: C₂₇H₄₂O₃·¼H₂O
Batch Molecular Weight: 419.12
Physical Appearance: White Waxy solid
Solubility: DMSO to 100 mM
ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (10% Ether/Petrol)
HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = +116.6 (Concentration = 2, Solvent = Chloroform)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.37	10.22	
Found	77.28	10.34	0.05

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

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Description:

Potent and selective CB₂ receptor agonist (K_i values are 22.7 nM and > 10 μM for CB₂ and CB₁ receptors respectively, EC₅₀ = 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:

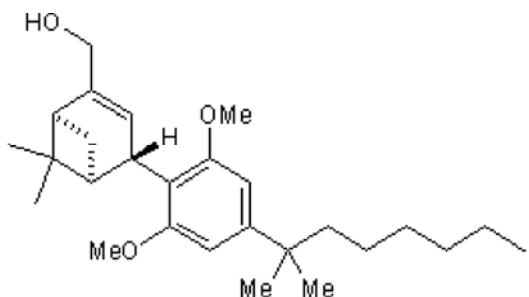
Batch Molecular Formula: C₂₇H₄₂O₃·¼H₂O

Batch Molecular Weight: 419.12

Physical Appearance: White Waxy solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Palazuelos et al (2009) Microglial CB₂ cannabinoid receptors are neuroprotective in Huntington's disease excitotoxicity. *Brain* **132** 3152. PMID: 19805493.

LaBuda et al (2005) Cannabinoid CB₂ 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 CB₂, a peripheral cannabinoid receptor. *Proc.Natl.Acad.Sci.USA* **96** 14228. PMID: 10588688.

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.

Licensing Information:

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