

Product Name: O-1918

Catalog No.: 2288

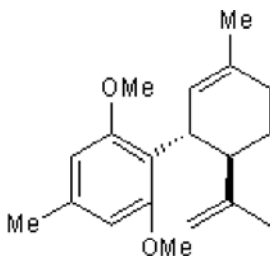
Batch No.: 1

CAS Number: 536697-79-7

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₆O₂
Batch Molecular Weight: 286.41
Physical Appearance: Cream solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.6 (Ethyl acetate:Petroleum ether [0.5:9.5])
HPLC: Shows 97.5% purity
¹H NMR: Consistent with structure
 Mass Spectrum: Consistent with structure
Optical Rotation: [α]_D = -147 (Concentration = 1, Solvent = Ethanol)
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	79.68	9.15	
Found	79.29	9.15	

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

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Description:

Selective, silent antagonist of a putative endothelial anandamide receptor distinct from CB₁ or CB₂ receptors. Inhibits vasodilation and cell migration induced by abnormal-cannabidiol (abn-CBD; Cat. No. 1297).

Physical and Chemical Properties:

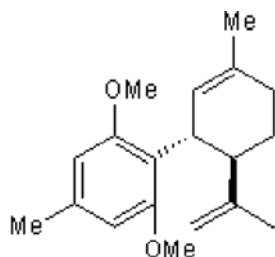
Batch Molecular Formula: C₁₉H₂₆O₂

Batch Molecular Weight: 286.41

Physical Appearance: Cream solid

Minimum Purity: ≥97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

Standard retail vials are prepared by lyophilisation. The product may appear as a solid, a gel or a film. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved

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:

Sold under license from the NIH, US patent 60/312,674

References:

Hoi and Hiley (2006) Vasorelaxant effects of oleamide in rat small mesenteric artery indicate action at a novel cannabinoid receptor. *Br.J.Pharmacol.* **147** 560. PMID: 16415907.

Mo et al (2004) Atypical cannabinoid stimulates endothelial cell migration via a G_i/G_o coupled receptor distinct from CB₁, CB₂ or EDG-1. *Eur.J.Pharmacol.* **489** 21. PMID: 15063151.

Offertáler et al (2003) Selective ligands and cellular effectors of a G protein-coupled endothelial cannabinoid receptor. *Mol.Pharmacol.* **63** 699. PMID: 12606780.

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