Product Name: CP 55,940
Catalog No.: 0949
Batch No.: 17
CAS Number: 83002-04-4
IUPAC Name: (-)-c/s-3-[2-Hydroxy-4-(1,1-dimethylheptyl)phenyl]-trans-4-(3-hydroxypropyl)cyclohexanol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $\text{C}_{24}\text{H}_{40}\text{O}_3\cdot\frac{1}{2}\text{H}_2\text{O}$
Batch Molecular Weight: 385.59
Physical Appearance: White solid
Solubility: ethanol to 100 mM
DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:

![Molecular Structure Image]

2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
Chiral HPLC: Shows 99.9% purity
$^1$H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

<table>
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<th>Element</th>
<th>Theoretical</th>
<th>Found</th>
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<td>10.77</td>
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</table>

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

**Product Name:** CP 55,940  
**Catalog No.:** 0949  
**Batch No.:** 17

**CAS Number:** 83002-04-4  
**IUPAC Name:** (-)-cis-3-[2-Hydroxy-4-(1,1-dimethylheptyl)phenyl]-trans-4-(3-hydroxypropyl)cyclohexanol

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**Description:**
Cannabinoid agonist which is considerably more potent than Δ⁸-THC in both behavioral tests and receptor binding assays. Displays high and roughly equal affinity for both central and peripheral cannabinoid receptors ($K_i = 0.6 - 5.0$ and $0.7 - 2.6$ nM at CB₁ and CB₂ respectively; $EC_{50}$ values are $0.2, 0.3$ and $5$ nM at CB₁, CB₂ and GRP55 respectively).

**Physical and Chemical Properties:**
- **Batch Molecular Formula:** C₂₄H₄₀O₅·½H₂O
- **Batch Molecular Weight:** 385.59
- **Physical Appearance:** White solid
- **Minimum Purity:** >98%
- **Batch Molecular Structure:**

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**Storage:** Store at -20°C

**Solubility & Usage Info:**
- Ethanol to 100 mM
- DMSO 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.

**Other Information:**

**INFORMATION FOR CUSTOMERS IN THE UK ONLY**
This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

**INFORMATION FOR CUSTOMERS IN CANADA ONLY**
This product is a Schedule II CDSA controlled substance and customers in Canada require an import permit to purchase this material.

**Licensing Information:**
Sold for research purposes under agreement from Pfizer Inc.

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**References:**

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