**Product Information**

**(-)-CP 55,940**  
**Item No. 90084**

**CAS Registry No.:** 83002-04-4  
**Formal Name:** 5-(1,1-dimethylheptyl)-2-[(1R,2R,5R)-5-hydroxy-2-(3-hydroxypropyl)cyclohexyl]-phenol

**MF:** C24H40O3  
**FW:** 376.6  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C

**Supplied as:** A crystalline solid

**UV/Vis.:** λ\text{max}: 204, 219, 277 nm

**Laboratory Procedures**

For long term storage, we suggest that (-)-CP 55,940 be stored as supplied at -20°C. It should be stable for at least two years.

(-)-CP 55,940 is supplied as a crystalline solid. A stock solution may be made by dissolving the (-)-CP 55,940 in an organic solvent purged with an inert gas. (-)-CP 55,940 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of (-)-CP 55,940 in these solvents is approximately 30 mg/ml.

(-)-CP 55,940 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (-)-CP 55,940 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. (-)-CP 55,940 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

(-)-CP 55,940 is a potent, non-selective cannabinoid (CB) receptor agonist with \( K_i \) values of 0.58 and 0.69 nM for human recombinant CB1 and CB2, respectively.2 It is a commonly used reference molecule in CB research and is considerably more potent than Δ⁹-THC in both behavioral tests and in receptor binding assays.1

**References**


**Related Products**

For a list of related products please visit: www.caymanchem.com/catalog/90084

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**WARNING:** This product is for laboratory research only: not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

**Material Safety Data**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent via email to your institution.

**Warranty and Limitation of Remedy**

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery. Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed of such possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Any refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.