TOCRIS
a bio-techne brand

Print Date: May 3rd 2019

Certificate of Analysis

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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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{24}H_{40}O_3.½H_2O$

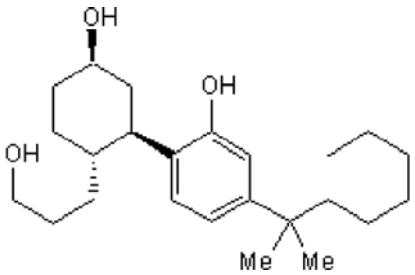
Batch Molecular Weight: 385.59

Physical Appearance: White solid

Solubility: ethanol to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



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:

	Carbon	Hydrogen	Nitrogen
Theoretical	74.76	10.72	
Found	74.99	10.77	

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:

Cannabinoid agonist which is considerably more potent than Δ^9-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 CB_1 and CB_2 respectively; EC_{50} values are 0.2, 0.3 and 5 nM at CB_1, CB_2 and GRP55 respectively).

Physical and Chemical Properties:

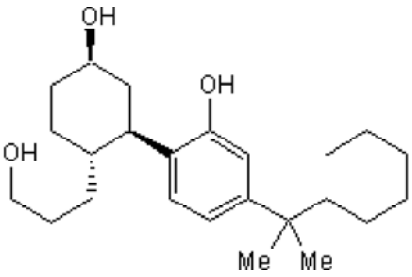
Batch Molecular Formula: $C_{24}H_{40}O_3.½H_2O$

Batch Molecular Weight: 385.59

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



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 relevent licence or be exempt from restrictions in order to purchase and posess 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.

References:

Avdesh (2011) Corticosteroid dependent and independent effects of a cannabinoid agonist on core temperature, motor activity, and prepulse inhibition of the acoustic startle reflex in Wistar rats. Psychopharmacology Epub ahead of print. PMID: 21947354.

Griffin *et al* (1998) Evaluation of cannabinoid receptor agonists and antagonists using the guanosine-5'-O-(3-[^{35}S]thio)-triphosphate binding assay in rat cerebellar membranes. J.Pharmacol.Exp.Ther. ***285*** 553. PMID: 9580597.

Thomas *et al* (1998) Comparative receptor binding analyses of cannabinoid agonists and antagonists. J.Pharmacol.Exp.Ther. ***285*** 285. PMID: 9536023.

Wiley *et al* (1995) Discriminative stimulus effects of CP 55,940 and structurally dissimilar cannabinoids in rats. Neuropharmacology ***34*** 669. PMID: 7566504.