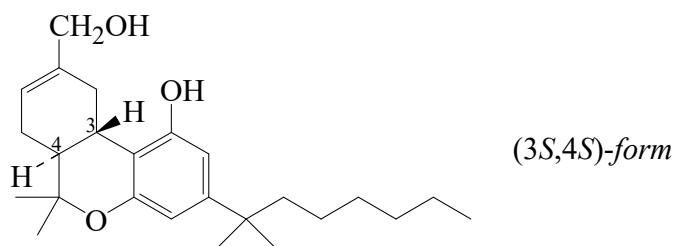




>>Entry Name: Dexanabinol

Synonym(s): 3-(1,1-Dimethylheptyl)-6*a*,7,10,10*a*-tetrahydro-1-hydroxy-6,6-dimethyl-6*H*-dibenzo[*b,d*]pyran-9-methanol, 9Cl. 3-(1,1-Dimethylheptyl)-7-hydroxy- Δ^6 -tetrahydrocannabinol



CAS Registry Number: 137428-19-4

Related CAS Registry Numbers(s): 164454-76-6

Molecular Formula: C₂₅H₃₈O₃

Molecular Weight: 386.573

Accurate Mass: 386.282095

Percentage Composition: C 77.68%; H 9.91%; O 12.42%

Other Data: The name dexanabinol refers to (3*S*,4*S*)-form

>>Variant: (3*R*,4*R*)-form

Synonym(s): HU 210

CAS Registry Number: 112830-95-2

Molecular Formula: C₂₅H₃₈O₃

Molecular Weight: 386.573

Accurate Mass: 386.282095

Percentage Composition: C 77.68%; H 9.91%; O 12.42%

Biological Use/Importance: Shows cannabimimetic activity

Melting Point: Mp 141-142°

Optical Rotation: [α]_D -226 (CHCl₃) (>99.8% ee)

>>Variant: (3*S*,4*S*)-form

Synonym(s): HU 211

CAS Registry Number: 112924-45-5

Molecular Formula: C₂₅H₃₈O₃

Molecular Weight: 386.573

Accurate Mass: 386.282095

Percentage Composition: C 77.68%; H 9.91%; O 12.42%

Biological Use/Importance: Non-competitive NMDA antagonist. Potent cerebroprotective agent

Physical Description: Cryst. (pentane)

Melting Point: Mp 141-142°

Optical Rotation: [α]_D +227 (CHCl₃) (>99.8% ee)

References:

Mechoulam, R. *et al.*, *Experientia*, 1988, **44**, 762-764, (*pharmacol, isomers*)

Ger. Pat., 1988, *Yissum*, 3 735 990; *CA*, **110**, 154614e, (*synth, pharmacol*)

Mechoulam, R. *et al.*, *Tetrahedron: Asymmetry*, 1990, **1**, 315-318, (*synth, isomers, pmr, bibl*)

Eskhar, N. *et al.*, *Eur. J. Pharmacol.*, 1995, **283**, 19-29, (*pharmacol, 3*S*,4*R*-form*)

Biegon, A. *et al.*, *Neurol. Res.*, 1995, **17**, 275-280, (*rev, 3*S*,4*S*-form*)

Vidrio, H. *et al.*, *J. Cardiovasc. Pharmacol.*, 1996, **28**, 332-336, (*pharmacol, 3*R*,4*R*-form*)

Brewster, M.E. *et al.*, *Int. J. Clin. Pharmacol., Ther. Toxicol.*, 1997, **35**, 361-365, (*3*S*,4*S*-form, pharmacokinet*)