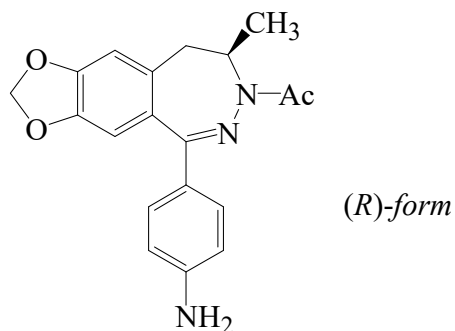




>>Entry Name: Talampanel, INN

Synonym(s): 7-Acetyl-5-(4-aminophenyl)-8,9-dihydro-8-methyl-7H-1,3-dioxolo[4,5-*h*][2,3]benzodiazepine, 9Cl. LY 300164. GYKI 53773



CAS Registry Number: 143691-37-6

Related CAS Registry Numbers(s): 143692-40-4

Molecular Formula: C₁₉H₁₉N₃O₃

Molecular Weight: 337.377

Accurate Mass: 337.142642

Percentage Composition: C 67.64%; H 5.68%; N 12.45%; O 14.23%

Biological Use/Importance: AMPA receptor antagonist

>>Variant: (*R*)-form

CAS Registry Number: 161832-65-1

Molecular Formula: C₁₉H₁₉N₃O₃

Molecular Weight: 337.377

Accurate Mass: 337.142642

Percentage Composition: C 67.64%; H 5.68%; N 12.45%; O 14.23%

Physical Description: Powder (EtOH aq.)

Melting Point: Mp 167-170°

Optical Rotation: [α]_D -325.8 (c, 1.0 in MeOH) (>98% ee)

Other Data: Pharmacol. active isomer

>>Variant: (*S*)-form

CAS Registry Number: 161832-67-3

Molecular Formula: C₁₉H₁₉N₃O₃

Molecular Weight: 337.377

Accurate Mass: 337.142642

Percentage Composition: C 67.64%; H 5.68%; N 12.45%; O 14.23%

Physical Description: Powder (EtOH aq.)

Melting Point: Mp 168-170°

Optical Rotation: [α]_D +344.5 (c, 1.0 in MeOH) (>98% ee)

References:

Anderson, B.A. *et al.*, *J.A.C.S.*, 1995, **117**, 12358-12359, (*synth, R-form*)

Ling, I. *et al.*, *J.C.S. Perkin I*, 1995, 1423-127, (*synth, pmr, R,S-forms*)

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Lodge, D. *et al.*, *Neuropharmacology*, 1996, **35**, 1681-1688, (*pharmacol*)

Szekely, J.I. *et al.*, *Eur. J. Pharmacol.*, 1997, **336**, 143-154, (*pharmacol*)