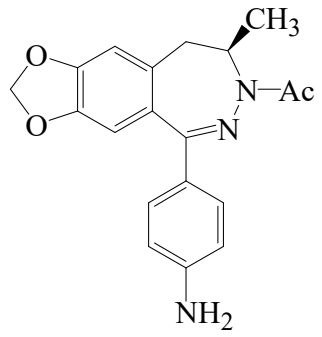
>>**Entry Name: Talampanel,** INN
**Synonym(s):** 7-Acetyl-5-(4-aminophenyl)-8,9-dihydro-8-methyl-7*H*-1,3-dioxolo[4,5-*h*][2,3]benzodiazepine, 9CI. LY 300164. GYKI 53773




(*R*)-*form*

**CAS Registry Number:** 143691-37-6
**Related CAS Registry Numbers(s):** 143692-40-4

**Molecular Formula:** $C_{19}H_{19}N_3O_3$
**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:** $C_{19}H_{19}N_3O_3$
**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:** $[\alpha]_D$ –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:** $C_{19}H_{19}N_3O_3$
**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:** $[\alpha]_D$ +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 1*, 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)*

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