

**Product Name:** Talampanel

**Catalog No.:** 5032

**Batch No.:** 1

CAS Number: 161832-65-1

IUPAC Name: (8*R*)-7-Acetyl-5-(4-aminophenyl)-8,9-dihydro-8-methyl-7*H*-1,3-dioxolo[4,5-*h*][2,3]benzodiazepine

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

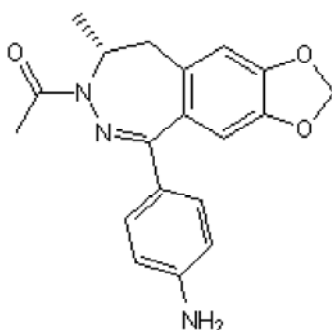
**Batch Molecular Weight:** 350.88

**Physical Appearance:** Yellow solid

**Solubility:** DMSO to 100 mM

**Storage:** Store at +4°C

**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.1% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.08	5.89	11.98
Found	65.02	5.6	11.76

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**Description:**

Non-competitive AMPA/kainate receptor antagonist that displays 2.3-3-fold more potent activity than GYKI 52466 (Cat. No. 1454). Potentiates the anticonvulsive activity of antiepileptic drugs in animal models of seizures. Orally active.

**Physical and Chemical Properties:**

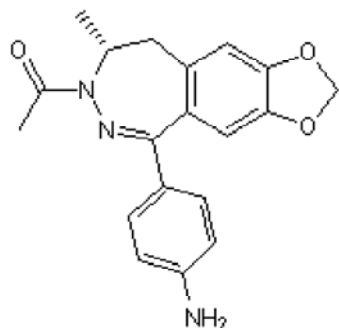
Batch Molecular Formula: C<sub>19</sub>H<sub>19</sub>N<sub>3</sub>O<sub>3</sub>·<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 350.88

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

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.

**References:**

**Belayev et al** (2001) Talampanel, a novel noncompetitive AMPA antagonist, is neuroprotective after traumatic brain injury in rats. *J.Neurotrauma* **18** 1031. PMID: 11686490.

**Borowicz et al** (2000) The AMPA/kainate receptor antagonist, LY 300164, increases the anticonvulsant effects of diazepam. *Naunyn-Schmied.Arch.Pharmacol.* **361** 629. PMID: 10882038.

**Czuczwar et al** (1998) LY 300164, a novel antagonist of AMPA/kainate receptors, potentiates the anticonvulsive activity of antiepileptic drugs. *Eur.J.Pharmacol.* **359** 103. PMID: 9832379 .

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