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DATASHEET

Talampanel

Product overview

Name	Talampanel
Cat No	HB0600
Alternative names	GYKI 53773, LY 300164
Biological action	Antagonist
Purity	>98%
Description	Selective, non-competitive AMPA / kainate receptor antagonist

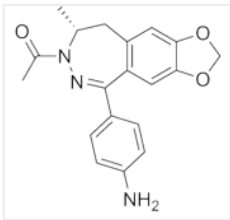
Biological Data

Biological description	Selective and non-competitive AMPA/ kainate receptor antagonist. Binds to allosteric site. Potentiates anticonvulsive activity of antiepileptic drugs. Displays anticonvulsant activity.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	(8 <i>R</i>)-7-Acetyl-5-(4-aminophenyl)-8,9 -dihydro-8-methyl-7 <i>H</i> -1,3-dioxolo[4,5- <i>h</i>][2,3]benzodiazepine
Molecular Weight	337.37
Chemical structure	
Molecular Formula	C ₁₉ H ₁₉ N ₃ O ₃
CAS Number	161832-65-1
PubChem identifier	164509
SMILES	NC(C=C4)=CC=C4C1=NN(C(C)=O)[C@H](C)CC2=C1C=C(OCO3)C3=C2
InChi	InChI=1S/C19H19N3O3/c1-11-7-14-8-17-18(25-10-24-17)9-16(14)19(21-22(11)12(2)23)13-3-5-15(20)6-4-13/h3-6,8-9,11H,7,10,20H2,1-2H3/t11-/m1/s1
InChiKey	JACAAXNEHGBPOQ-LLVKDONJSA-N
MDL number	MFCD00871406

References

Talampanel suppresses the acute and chronic effects of seizures in a rodent neonatal seizure model.

Aujla PK *et al* (2009) *Epilepsia* 50(4)

PubMedID

19220413

LY 300164, a novel antagonist of AMPA/kainate receptors, potentiates the anticonvulsive activity of antiepileptic drugs.

Czuczwar SJ *et al* (1998) Eur J Pharmacol 359(2-3)

PubMedID

9832379

Talampanel, a novel noncompetitive AMPA antagonist, is neuroprotective after traumatic brain injury in rats.

Belayev L *et al* (2001) J Neurotrauma 18(10)

PubMedID

11686490
