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Print Date: Jun 28th 2019

Certificate of Analysis

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Product Name: **SYM 2206** **Catalog No.: 0961** **Batch No.: 9**

CAS Number: 173952-44-8

IUPAC Name: (±)-4-(4-Aminophenyl)-1,2-dihydro-1-methyl-2-propylcarbamoyl-6,7-methylenedioxyphthalazine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{20}H_{22}N_4O_3$

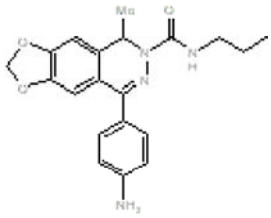
Batch Molecular Weight: 366.42

Physical Appearance: White solid

Solubility: ethanol to 100 mM
DMSO to 100 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.36 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

^{13}C NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.56	6.05	15.29
Found	65.55	6.1	15.19

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Description:

Novel, potent, non-competitive AMPA receptor antagonist (IC_{50} = 2.8 µM). Acts allosterically at the same regulatory site as GYKI 52466 (Cat. No. 1454) and GYKI 53655 (Cat. No. 2555) and other benzodiazepines but does not bind to the central diazepine binding site. Selective for AMPA relative to kainate receptor sub-types. Similar potency to GYKI 53655. Anticonvulsant in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{20}H_{22}N_4O_3$

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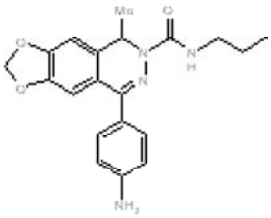
Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

ethanol to 100 mM
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.

Licensing Information:

Sold with the permission of Annovis Inc.

References:

Bleakman *et al* (2002) Kainate receptor agonists, antagonists and allosteric modulators. Curr.Pharm.Des. ***8*** 873. PMID: 11945137.

Li *et al* (1999) Kainate-receptor-mediated sensory synaptic transmission in mammalian spinal cord. Nature ***397*** 161. PMID: 9923678.

Pelletier *et al* (1996) Substituted 1,2-dihydrophthalazines: potent, selective and non-competitive inhibitors of the AMPA receptor. J.Med.Chem. ***39*** 343. PMID: 8558499.