Certificate of Analysis

Print Date: Jan 15th 2016

Product Name: GYKI 47261 dihydrochloride

Catalog No.: 3099

Batch No.: 1

CAS Number: IUPAC Name:

TOCRIS

a biotechne brand

1217049-32-5

4-(8-Chloro-2-methyl-11H-imidazo[1,2-c][2,3]benzodiazepin-6-benzeneamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: $C_{18}H_{15}CIN_4.2HCI.134H_2O$ 427.23 Yellow solid DMSO to 100 mM Store at +4°C



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Microanalysis: $R_{f} = 0.5 \text{ (Chloroform:Methanol [1:9])}$ Shows 100% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 50.6 4.84 13.11
Found 50.69 4.76 13.05

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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IUPAC Name: 4-(8-Chloro-2-methyl-11*H*-imidazo[1,2-c][2,3]benzodiazepin-6-benzeneamine dihydrochloride

Description:

Non-competitive AMPA receptor antagonist (IC_{50} = 2.5 µM). Displays broad spectrum anticonvulsive activity and neuroprotective effects in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{15}CIN_4.2HCI.134H_{2}O$ Batch Molecular Weight: 427.23 Physical Appearance: Yellow solid

Minimum Purity: >99%

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).

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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:

Abraham et al (2000) New non competitive AMPA antagonists. Bioorg.Med.Chem. 8 2127. PMID: 11003158.

Solyo (2001) Research on new AMPA antagonists of 2,3-benzodiazepine type. Pharmazie 25 (Suppl. 1) S62.

Bibbiani *et al* (2005) Combined blockade of AMPA and NMDA glutamate receptors reduces levodopa-induced motor complications in animal models of PD. Exp.Neurol. **196** 422. PMID: 16203001.

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