

Certificate of Analysis

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Product Name: CBiPES hydrochloride

Catalog No.: 3949

Batch No.: 1

CAS Number: 856702-40-4

IUPAC Name: *N*-(4'-Cyano-[1,1'-biphenyl]-3-yl)-*N*-(3-pyridinylmethyl)-ethanesulfonamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁H₁₉N₃O₂S.HCl

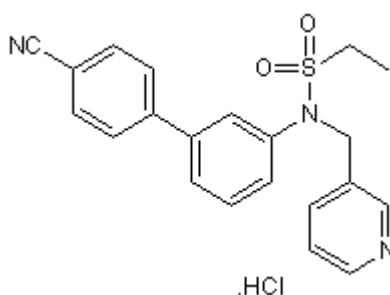
Batch Molecular Weight: 413.92

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:	Carbon	Hydrogen	Nitrogen
Theoretical	60.94	4.87	10.15
Found	60.77	4.91	10.03

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

Product Information

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Description:

Selective positive allosteric modulator of the mGlu₂ receptor (IC₅₀ = 98.2 nM). Mimics the action of LY 379268 (Cat. No. 2453); attenuates ketamine-evoked histamine release in vivo.

Physical and Chemical Properties:

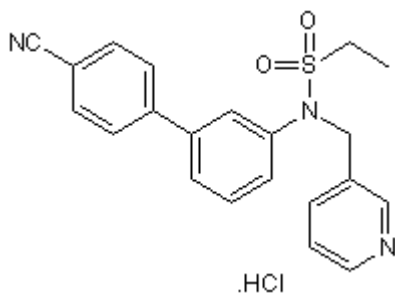
Batch Molecular Formula: C₂₁H₁₉N₃O₂S.HCl

Batch Molecular Weight: 413.92

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

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:

Johnson et al (2005) Metabotropic glutamate 2 receptor potentiators: receptor modulation, frequency-dependent synaptic activity, and efficacy in preclinical anxiety and psychosis model(s). *Psychopharmacology*. **179** 271. PMID: 15717213.

Fell et al (2010) Activation of metabotropic glutamate receptors (mGlu)2 receptors suppresses histamine release in limbic brain regions following acute ketamine challenge. *Neuropharmacology*. **58** 632. PMID: 19951716.

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