

Certificate of Analysis

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Product Name: CMPDA

Catalog No.: 4373

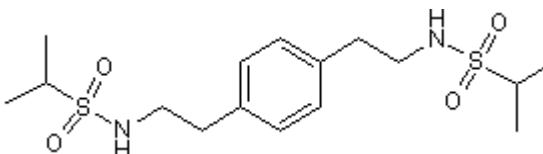
Batch No.: 1

CAS Number: 380607-77-2

IUPAC Name: *N,N*-(1,4-Phenylenedi-2,1-ethanediyl)bis-2-propanesulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₂₈N₂O₄S₂
Batch Molecular Weight: 376.53
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (Chloroform:Methanol [9:1])
HPLC: Shows 100% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.04	7.5	7.44
Found	50.89	7.46	7.46

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

Product Information

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Description:

Positive allosteric modulator of GluR2 receptors (EC_{50} values are 45.4 and 63.4 nM at GluR2i and GluR2o respectively, in a calcium influx screening assay). Binds at the modulator binding pocket located at the interdimer interface and the clamshell hinges.

Physical and Chemical Properties:

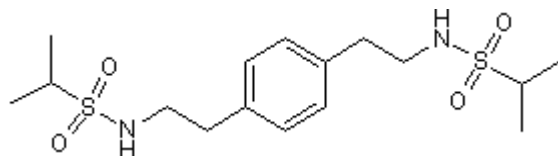
Batch Molecular Formula: $C_{16}H_{28}N_2O_4S_2$

Batch Molecular Weight: 376.53

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 50 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:

Timm et al (2011) Structural and functional analysis of two new positive allosteric modulators of GluA2 desensitization and deactivation. *Mol.Pharmacol.* **80** 267. PMID: 21543522.

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