
Product Data Sheet

Product Name: CMPDA
 Cat. No.: GC13290

Chemical Properties

Cas. No. 380607-77-2

Chemical Name N,N'-(1,4-phenylenebis(ethane-2,1-diyl))bis(propane-2-sulfonamide)

SMILES CC(S(NCCC1=CC=C(CCNS(C(C)C)(=O)=O)C=C1)(=O)=O)C

Formula $C_{16}H_{28}N_2O_4S_2$ M.Wt 376.53

Solubility DMF: 30mg/mL, DMSO: 30mg/mL, Ethanol: 30mg/mL, PBS (pH 7.2): 10mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

CMPDA is a positive allosteric modulator of AMPA receptors with EC₅₀s of 45.4 ± 4.2 nM/63.4 ± 5.6 nM for GluA2i/GluA2o receptor. IC₅₀ value: 45.4 ± 4.2 nM/63.4 ± 5.6 nM (GluA2i/GluA2o) [1] Target: AMPAR modulator CMPDA was nearly equipotent at modulating the two isoforms of GluA2 receptors, whereas CMPDB displayed a modest preference for the flip splice variant. Similar to CX614, CMPDA slowed the rate of deactivation of GluA2o receptors approximately 2-fold but had no effect on GluA2i receptor deactivation [1].

References:

[1]. Timm DE, et al. Structural and functional analysis of two new positive allosteric modulators of GluA2 desensitization and deactivation. Mol Pharmacol. 2011 Aug;80(2):267-80.

Caution: Product has not been fully validated for medical applications. For research use only.

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