

Product Name: IC 87201

Catalog No.: 6226

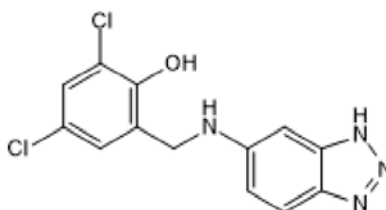
Batch No.: 2

CAS Number: 866927-10-8

IUPAC Name: 2-[(1*H*-Benzotriazol-6-ylamino)methyl]-4,6-dichlorophenol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₀Cl₂N₄O.H₂O
Batch Molecular Weight: 327.17
Physical Appearance: Off White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.57 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.73	3.7	17.12
Found	47.87	3.6	17.38

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

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Description:

Inhibits binding of the NMDA receptor postsynaptic density protein 95 kDa (PSD95) to nNOS ($EC_{50} = 23.94 \mu\text{M}$), while not affecting the PSD95-ErbB4 interaction. Inhibits glutamate-induced cell death in cultured cortical neurons. Exhibits antinociceptive effects in inflammatory pain models *in vivo*. Also exhibits antidepressant-like activity in animal models.

Physical and Chemical Properties:

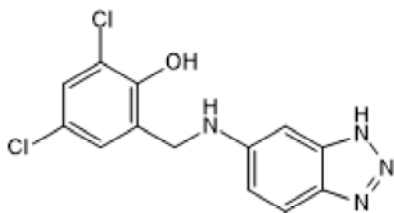
Batch Molecular Formula: $\text{C}_{13}\text{H}_{10}\text{Cl}_2\text{N}_4\text{O} \cdot \text{H}_2\text{O}$

Batch Molecular Weight: 327.17

Physical Appearance: Off White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Lee *et al* (2015) Small molecule inhibitors of PSD95-nNOS protein-protein interactions as novel analgesics. *Neuropharmacology*. **97** 464. PMID: 26071110.

Doucet *et al* (2013) Small-molecule inhibitors at the PSD-95/nNOS interface have antidepressant-like properties in mice. *Neuropsychopharmacology*. **38** 1575. PMID: 23446451.

Florio *et al* (2009) Disruption of nNOS-PSD95 protein-protein interaction inhibits acute thermal hyperalgesia and chronic mechanical allodynia in rodents. *Br.J.Pharmacol.* **158** 494. PMID: 19732061.

Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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.

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