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DATASHEET

ACBC

Product overview

Name	ACBC
Cat No	HB0100
Biological action	Agonist
Description	Competitive NMDA receptor partial agonist

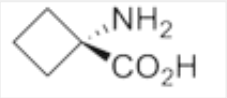
Biological Data

Biological description	Competitive NMDA receptor partial agonist (K_i = 0.83 mM). Binds at glycine site. Shows 65-fold higher affinity for GluN3 compared to GluN1 subunit.

Solubility & Handling

Storage instructions	Room temperature
Solubility overview	Soluble in water (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-Aminocyclobutane-1-carboxylic acid
Molecular Weight	115.13
Chemical structure	
Molecular Formula	$C_5H_9NO_2$
CAS Number	22264-50-2
PubChem identifier	89643
SMILES	NC1(CCC1)C(O)=O
InChiKey	FVTVMQPGKVHSEY-UHFFFAOYSA-N

References

Pharmacology of NMDA Receptors

Monaghan DT *et al* (2009) 0
PubMedID 21204415

Mechanism of partial agonist action at the NR1 subunit of NMDA receptors.

Inanobe A *et al* (2005) Neuron 47(1)
PubMedID 15996549

1-Aminocyclobutane-1-carboxylate (ACBC): a specific antagonist of the N-methyl-D-aspartate receptor coupled glycine receptor.

Hood WF *et al* (1989) Eur J Pharmacol 161(2-3)
PubMedID 2542048