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DATASHEET

QNZ 46

Product overview

Name	QNZ 46
Cat No	HB0541
Biological action	Antagonist
Purity	>98%
Description	GluN2C/D selective, non-competitive NMDA receptor antagonist

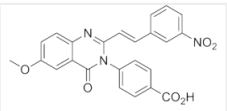
Biological Data

Biological description	GluN2C/D (NR2C/NR2D) selective, non-competitive NMDA receptor antagonist (IC50 values are 182, 193,7.1 and 3.9 µM for GluN2A, GluN2B, GluN2C and GluN2D respectively). Binds to glutamate site. Approx 50-fold more selective for GluN2C/D than GluN2A/B.

Solubility & Handling

Storage instructions	room temperature
Solubility overview	soluble in DMSO (10mM, gentle warming)
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	4-[6-Methoxy-2-[(1E)-2-(3-nitrophen yl)ethenyl]-4-oxo-3(4H)quinazolinyl]benzoic acid
Molecular Weight	443.41
Chemical structure	
Molecular Formula	$C_{24}H_{17}N_3O_6$
CAS Number	1237744-13-6
PubChem identifier	46861929
SMILES	O=C2C1=CC(OC)=CC=C1N=C(/C=C/C4=CC([N+]([O-])=O)=CC=C4)N2C3=CC=C(C(O)=O)C=C3
InChiKey	GNLVJIICVWDSNI-LFYBBSHMSA-N

References

Structural and mechanistic determinants of a novel site for noncompetitive inhibition of GluN2D-containing NMDA receptors

Hansen et al (2011) J Neurosci. 9;31

PubMedID 21389220

Quinazolin-4-one derivatives: A novel class of noncompetitive NR2C/D subunit-selective N-methyl-D-aspartate receptor antagonists

Mosley et al (2010) J Med Chem. 53(15)

PubMedID 20684595