Hello Bio, Inc. 304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500 F. 609-228-4994

customercare-usa@hellobio.com



# **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**

**Solubility overview** soluble in DMSO (10mM, gentle warming)

Storage instructions room temperature

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt.

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 443.41

Chemical structure

Molecular Formula  $C_{24}H_{17}N_3O_6$  CAS Number 1237744-13-6

 $\begin{array}{lll} \textbf{PubChem identifier} & 46861929 \\ \textbf{SMILES} & O=C2C1=CC(OC)=CC=C1N=C(/C=C/C4=CC([N+]([O-])=O)=CC=C4)N2C3=CC=C(C(O)=O)C=C3 \\ \textbf{InChiKey} & GNLVJIICVWDSNI-LFYBBSHMSA-N \\ \end{array}$ 

### 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

### antagonists

Mosley et al (2010) J Med Chem. 53(15) **PubMedID** 20684595