

**Product Name:** QNZ 46

**Catalog No.:** 4801

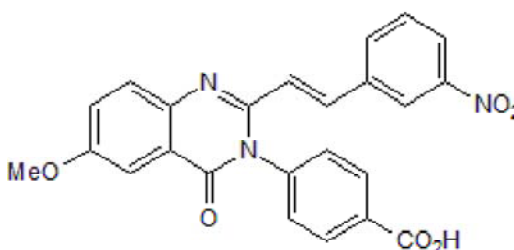
**Batch No.:** 1

CAS Number: 1237744-13-6

IUPAC Name: 4-[6-Methoxy-2-[(1E)-2-(3-nitrophenyl)ethenyl]-4-oxo-3(4H)quinazoliny]]benzoic acid

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>24</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>·¼H<sub>2</sub>O  
**Batch Molecular Weight:** 447.91  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 10 mM with gentle warming  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 98.7% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	64.36	3.94	9.38
Found	64.27	3.9	9.36

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

**Product Name:** QNZ 46

**Catalog No.:** 4801

**Batch No.:** 1

CAS Number: 1237744-13-6

IUPAC Name: 4-[6-Methoxy-2-[(1E)-2-(3-nitrophenyl)ethenyl]-4-oxo-3(4H)quinazoliny]]benzoic acid

**Description:**

GluN2C/GluN2D-selective NMDA receptor non-competitive antagonist (IC<sub>50</sub> values are 3, 6, 229, and >300, >300 μM for GluN2D, GluN2C, GluN2A, GluN2B, and GluR1, respectively). Requires binding of glutamate to the GluN2 subunit. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

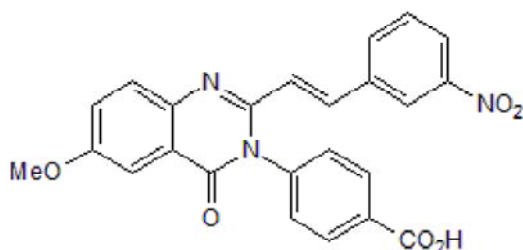
Batch Molecular Formula: C<sub>24</sub>H<sub>17</sub>N<sub>3</sub>O<sub>6</sub>·½H<sub>2</sub>O

Batch Molecular Weight: 447.91

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 10 mM with gentle warming

**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.

**References:**

**Hansen and Traynelis** (2011) Structural and mechanistic determinants of a novel site for noncompetitive inhibition of GluN2D-containing NMDA receptors. *J.Neurosci.* **31** 3650. PMID: 21389220.

**Mosley et al** (2010) Quinazolin-4-one derivatives: A novel class of noncompetitive NR2C/D subunit-selective N-methyl-D-aspartate receptor antagonists. *J.Med.Chem.* **53** 5476. PMID: 20684595.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956