QNZ46

Cat. No.: HY-15703

CAS No.: 1237744-13-6

Molecular Formula: $C_{24}H_{17}N_3O_6$

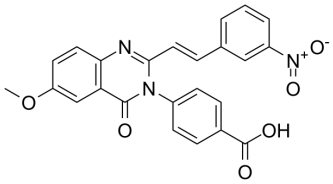
Molecular Weight: 443.41

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4 mg/mL (9.02 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.2552 mL	11.2762 mL	22.5525 mL
5 mM	0.4510 mL	2.2552 mL	4.5105 mL
10 mM	---	---	---

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

QNZ46 is a NR2C/NR2D-selective NMDA receptor non-competitive antagonist (IC50 values are 3, 6, 229, and >300, >300 μM for NR2D, NR2C, NR2A, NR2B, and GluR1, respectively). IC50 value: 3 μM (for NR2D), 6 μM (for NR2C), 229 μM (for NR2D NR2A)Target: NR2D, NR2C, NR2Ain vitro: QNZ46 is a noncompetitive inhibitor of GluN2C/D containing NMDA receptors. KD and IC50 values for binding and inhibition of GluN1/Glun2D receptors by QNZ46 are 4.9 and 3.9 μM, respectively. QNZ46 does not compete for binding of glutamate or glycine, but QNZ46 receptor binding requires the binding of glutamate to the GluN2 subunit.

CUSTOMER VALIDATION

- Neuropharmacology. 2020 Nov 2;108382.

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REFERENCES

[1]. Hansen KB, et al. Structural and mechanistic determinants of a novel site for noncompetitive inhibition of GluN2D-containing NMDA receptors. J Neurosci. 2011 Mar 9;31(10):3650-3661.

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