

Product Data Sheet

Product Name: QNZ 46
Cat. No.: GC16776

Chemical Properties

Cas. No. 1237744-13-6

Chemical Name (S,Z)-3-(4-carboxyphenyl)-6-methoxy-2-(3-nitrostyryl)-4-oxo-4,4a-dihydroquinazolin-3-ium

SMILES O=C1[N+](C2=CC=C(C(O)=O)C=C2)=C(/C=C\C3=CC=CC([N+])([O-])=O)=C3)N=C(C=C4)[C@@H]1C=C4OC

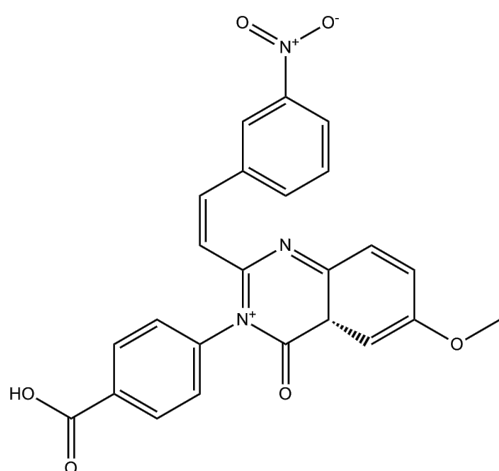
Formula $C_{24}H_{17}N_3O_6$ M.Wt 443.41

Solubility DMSO : 4 mg/mL (9.02 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

Caution: Product has not been fully validated for medical applications. For research use only.

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(for NR2D), 6 μ M (for NR2C), 229 μ M (for NR2D NR2A) Target: NR2D, NR2C, NR2A in 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 μ M, respectively. QNZ46 does not compete for binding of glutamate or glycine, but QNZ46 receptor binding requires the binding of glutamate to the GluN2 subunit.

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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