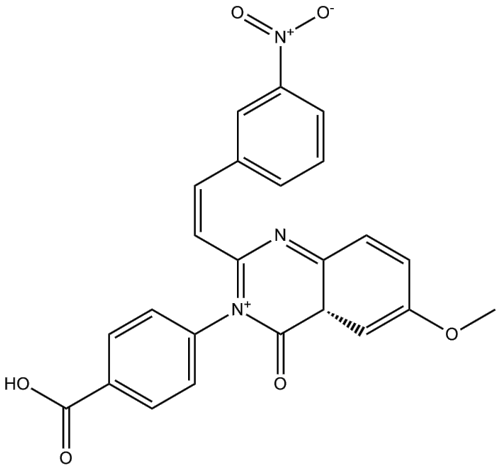
Product Data Sheet

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

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(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.

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.

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

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