

Certificate of Analysis

www.tocris.com

Product Name: NPS 2390

Catalog No.: 4134

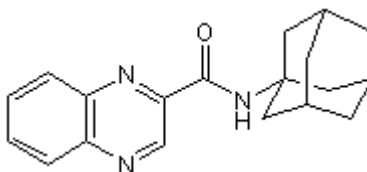
Batch No.: 1

CAS Number: 226878-01-9

IUPAC Name: *N*-tricyclo[3.3.1.1^{3,7}]dec-1-yl-2-quinoxalinecarboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁N₃O
Batch Molecular Weight: 307.39
Physical Appearance: Grey solid
Solubility: DMSO to 50 mM
 ethanol to 50 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.37 (Chloroform:Methanol [95:5])
HPLC: Shows 99.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	74.24	6.89	13.67
Found	74.15	6.95	13.75

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

Product Name: NPS 2390

Catalog No.: 4134

Batch No.: 1

CAS Number: 226878-01-9

IUPAC Name: *N*-tricyclo[3.3.1.1^{3,7}]dec-1-yl-2-quinoxalinecarboxamide

Description:

Group I mGlu antagonist; displays noncompetitive antagonist activity at both mGlu₁ and mGlu₅ receptors. Thought to act on a site separate from the glutamate binding pocket.

Physical and Chemical Properties:

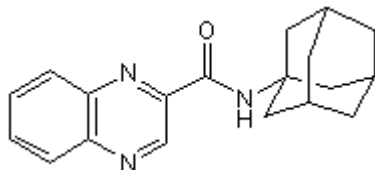
Batch Molecular Formula: C₁₉H₂₁N₃O

Batch Molecular Weight: 307.39

Physical Appearance: Grey solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

DMSO to 50 mM

ethanol to 50 mM

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:

van Wagenen et al (2000) Structure-activity relationship studies of NPS 2390: a potent and selective group I metabotropic glutamate receptor antagonist. *Abstr.Soc.Neurosci. Program No.* 618.3..

Lavreysen et al (2003) [³H]R214127: a novel high-affinity radioligand for the mGlu1 receptor reveals a common binding site shared by multiple allosteric antagonists. *Mol.Pharmacol.* **63** 1082. PMID: 12695537.

Mabire et al (2005) Synthesis, structure-activity relationship, and receptor pharmacology of a new series of quinoline derivatives acting as selective, noncompetitive mGlu1 antagonists. *J.Med.Chem.* **48** 2134. PMID: 15771457.

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