

Product Name: DQP 1105

Catalog No.: 4491

Batch No.: 2

CAS Number: 380560-89-4

IUPAC Name: 5-(4-Bromophenyl)-3-(1,2-dihydro-6-methyl-2-oxo-4-phenyl-3-quinoliny)-4,5-dihydro- γ -oxo-1*H*-pyrazole-1-butanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₉H₂₄BrN₃O₄· $\frac{3}{4}$ H₂O

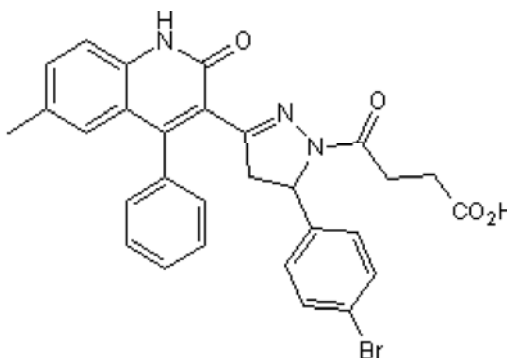
Batch Molecular Weight: 571.93

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.7% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	60.9	4.49	7.35
Found	60.63	4.35	7.23

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

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Description:

DQP 1105 is a noncompetitive NMDA receptor antagonist; displays over 50-fold selectivity for GluN2D- and GluN2C-containing receptors over GluN2B-, GluK2-, GluA1- and GluN2A-containing receptors (IC₅₀ values are 2.7, 8.5, 121, 153, 198 and 206 μ M, respectively). Reduces frequency of channel opening. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

Physical and Chemical Properties:

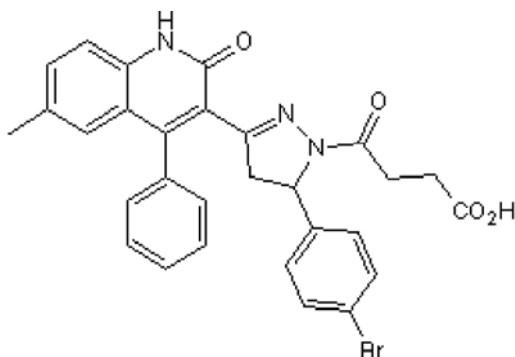
Batch Molecular Formula: C₂₉H₂₄BrN₃O₄· $\frac{3}{4}$ H₂O

Batch Molecular Weight: 571.93

Physical Appearance: Off White solid

Minimum Purity: \geq 97%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 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:

Acker *et al* (2011) Mechanism for noncompetitive inhibition by novel GluN2C/D N-MthD.-aspartate receptor subunit-selective modulators. *Mol.Pharmacol.* **80** 782. PMID: 21807990.

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