

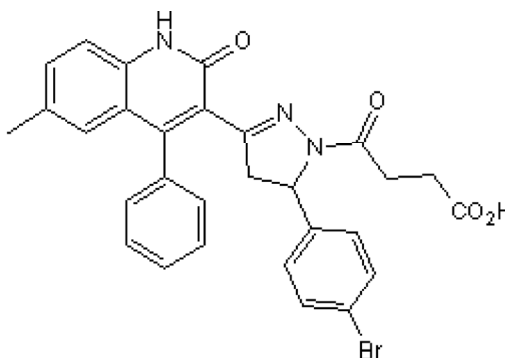
# Certificate of Analysis

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<b>Product Name:</b>	<b>DQP 1105</b>	<b>Catalog No.:</b>	<b>4491</b>	<b>Batch No.:</b>	<b>3</b>
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- $\gamma$ -oxo-1 <i>H</i> -pyrazole-1-butanoic acid				

## 1. PHYSICAL AND CHEMICAL PROPERTIES

<b>Batch Molecular Formula:</b>	C <sub>29</sub> H <sub>24</sub> BrN <sub>3</sub> O <sub>4</sub>
<b>Batch Molecular Weight:</b>	558.42
<b>Physical Appearance:</b>	Off-white solid
<b>Solubility:</b>	DMSO to 100 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.3% purity
<b><sup>1</sup>H NMR:</b>	Consistent with structure
<b>Mass Spectrum:</b>	Consistent with structure

<b>Microanalysis:</b>	Carbon Hydrogen Nitrogen			
Theoretical	62.37	4.33	7.52	
Found	61.59	4.39	7.34	

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**Product Name:** DQP 1105

**Catalog No.:** 4491

**Batch No.:** 3

**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- $\gamma$ -oxo-1*H*-pyrazole-1-butanoic acid

**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 (IC<sub>50</sub> values are 2.7, 8.5, 121, 153, 198 and 206  $\mu$ M, respectively). Reduces frequency of channel opening. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions.

**Physical and Chemical Properties:**

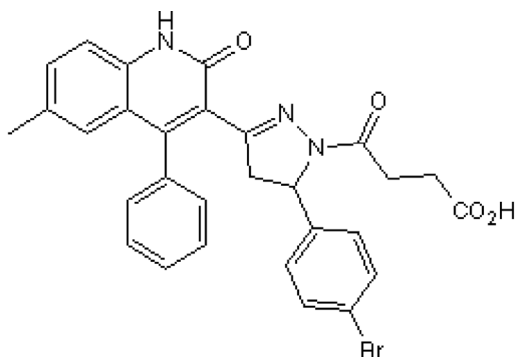
Batch Molecular Formula: C<sub>29</sub>H<sub>24</sub>BrN<sub>3</sub>O<sub>4</sub>

Batch Molecular Weight: 558.42

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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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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