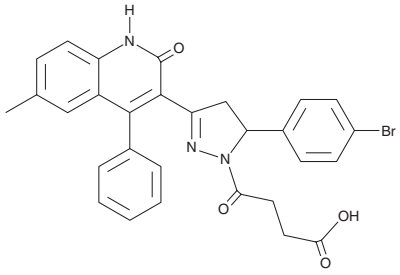
PRODUCT INFORMATION

DQP1105

Item No. 31121

CAS Registry No.:	380560-89-4
Formal Name:	5-(4-bromophenyl)-3-(1,2-dihydro-6-methyl-2-oxo-4-phenyl-3-quinolinyl)-4,5-dihydro-γ-oxo-1H-pyrazole-1-butanoic acid
MF:	$C_{29}H_{24}BrN_3O_4$
FW:	558.4
Purity:	≥98%
UV/Vis.:	λ_{max}: 232 nm
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

DQP1105 is supplied as a solid. A stock solution may be made by dissolving the DQP1105 in the solvent of choice, which should be purged with an inert gas. DQP1105 is soluble in the organic solvent DMSO at a concentration of approximately 50 mg/ml.

Description

DQP1105 is an NMDA receptor antagonist.[1] It selectively inhibits glutamate-induced currents in *Xenopus* oocytes expressing rat NR2C and NR2D subunit-containing NMDA receptors (IC_{50}s = 8.5 and 2.7 µM, respectively) over NR2A, NR2B, NRA1, and NRK2 subunit-containing receptors (IC_{50}s = 206, 121, 198, and 153 µM, respectively).

Reference

1. Acker, T.M., Yuan, H., Hansen, K.B., *et al*. Mechanism for noncompetitive inhibition by novel GluN2C/D *N*-methyl-D-aspartate receptor subunit-selective modulators. *Mol. Pharmacol.* **80(5)**, 782-795 (2011).

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