Print Date: Mar 17th 2017

Certificate of Analysis

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Product Name: **MLS 1547** **Catalog No.: 6171** **Batch No.: 1**

CAS Number: 315698-36-3

IUPAC Name: 5-Chloro-7-[[4-(2-pyridinyl)-1-piperazinyl]methyl]-8-quinolinol

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{19}ClN_4O$

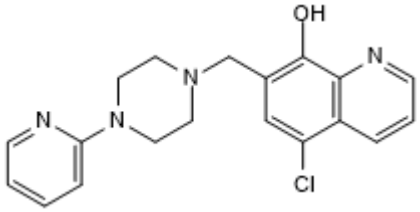
Batch Molecular Weight: 354.83

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.2% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.31	5.4	15.79
Found	64.41	5.39	15.74

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Product Information

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CAS Number: 315698-36-3

IUPAC Name: 5-Chloro-7-[[4-(2-pyridinyl)-1-piperazinyl]methyl]-8-quinolinol

Description:

G protein-biased D_2 receptor partial agonist (K_i = 1.2 μM). Stimulates D_2 receptor G protein-mediated signaling and acts as an antagonist of dopamine-mediated β-arrestin recruitment at D_2 receptors.

Physical and Chemical Properties:

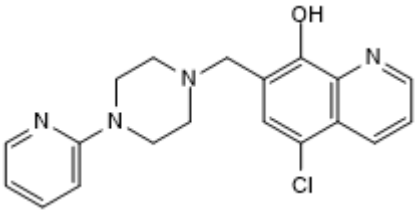
Batch Molecular Formula: $C_{19}H_{19}ClN_4O$

Batch Molecular Weight: 354.83

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 mM with gentle warming

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:

Free *et al* (2014) Discovery and characterization of a G protein-biased agonist that inhibits β-arrestin recruitment to the D_2 dopamine receptor. Mol.Pharmacol. ***86*** 96. PMID: 24755247.

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