

Certificate of Analysis

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Product Name: B2

Catalog No.: 2855

Batch No.: 1

CAS Number: 115687-05-3

IUPAC Name: 5-[4-(4-Chlorobenzoyl)-1-piperazinyl]-8-nitroquinoline

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₁₇ClN₄O₃ · ¼H₂O

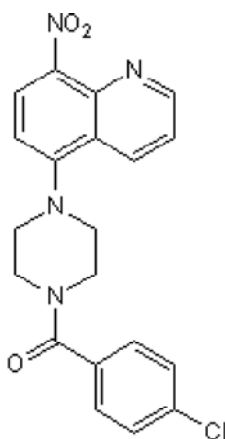
Batch Molecular Weight: 401.33

Physical Appearance: Yellow solid

Solubility: DMSO to 100 mM
ethanol to 10 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.28 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows >98.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.86	4.39	13.96
Found	60.12	4.45	13.57

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

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Catalog No.: 2855

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CAS Number: 115687-05-3

IUPAC Name: 5-[4-(4-Chlorobenzoyl)-1-piperazinyl]-8-nitroquinoline

Description:

Promotes inclusion formation in cellular models of Huntington's disease and Parkinson's disease. Prevents mutant huntingtin-mediated proteasome dysfunction and reduces α -synuclein-mediated toxicity.

Physical and Chemical Properties:

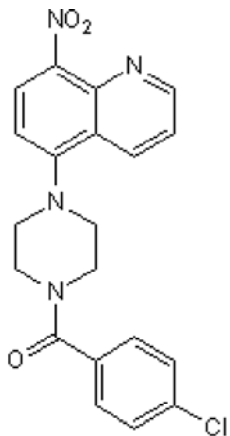
Batch Molecular Formula: $C_{20}H_{17}ClN_4O_3 \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 401.33

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 10 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:

Bodner et al (2006) Pharmacological promotion of inclusion formation: a therapeutic approach for Huntington's and Parkinson's diseases. *Proc.Natl.Acad.Sci.USA* **103** 4246.

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