

## Certificate of Analysis

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**Product Name:** MY-5445

**Catalog No.:** 0432

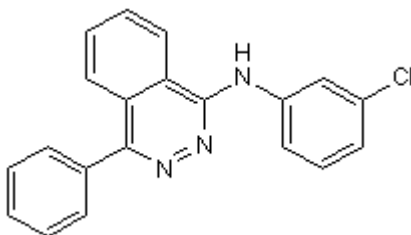
**Batch No.:** 3

CAS Number: 78351-75-4

IUPAC Name: 1-(3-Chlorophenylamino)-4-phenylphthalazine

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>14</sub>ClN<sub>3</sub>  
**Batch Molecular Weight:** 331.8  
**Physical Appearance:** Yellow solid  
**Solubility:** DMSO to 50 mM  
 ethanol to 5 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	72.4	4.25	12.66
Found	72.84	4.25	12.68

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

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**Description:**

Specific inhibitor of cyclic GMP phosphodiesterase, selective for PDE5 (IC<sub>50</sub> = 0.5 μM).

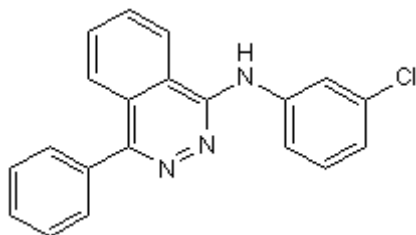
**Physical and Chemical Properties:**

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Batch Molecular Weight: 331.8

Physical Appearance: Yellow solid

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

DMSO to 50 mM

ethanol to 5 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:**

**Hagiwara et al** (1984) Effect of 1-(3-chloroanilino)-4-phenylphthalazine (MY-5445), a specific inhibitor of cyclic GMP phosphodiesterase, on human platelet aggregation. *J.Pharmacol.Exp.Ther.* **228** 467. PMID: 6141286.

**Hidaka and Endo et al** (1984) Selective inhibitors of three forms of cyclic nucleotide phosphodiesterase, basic and potential clinical applications. *Adv.Cyclic Nucleotide Protein Phosphorylation Res.* **16** 245. PMID: 6144253.

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