

## Certificate of Analysis

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**Product Name:** Quipazine dimaleate

**Catalog No.:** 0629

**Batch No.:** 4

CAS Number: 150323-78-7

EC Number: 227-314-2

IUPAC Name: 2-(1-Piperazinyl)quinoline dimaleate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>.2C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>.¼H<sub>2</sub>O

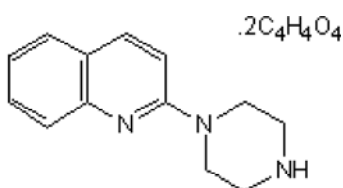
**Batch Molecular Weight:** 449.93

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 100% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	56.06	5.26	9.34
Found	55.74	5.31	9.39

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

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IUPAC Name: 2-(1-Piperaziny)quinoline dimaleate

**Description:**

Quipazine dimaleate is a selective 5-HT<sub>3</sub> receptor agonist. Also displays antagonist activity at peripheral 5-HT<sub>3</sub> receptors. [<sup>3</sup>H]-Quipazine labels 5-HT<sub>3</sub> sites in the cortical membranes.

**Physical and Chemical Properties:**

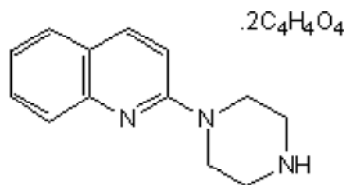
Batch Molecular Formula: C<sub>13</sub>H<sub>15</sub>N<sub>3</sub>.2C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>.¼H<sub>2</sub>O

Batch Molecular Weight: 449.93

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water 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. 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:**

**Sharif et al** (1991) Characteristics of 5-HT<sub>3</sub> binding sites in NG108-15, NCB-20 neuroblastoma cells and rat cerebral cortex using [<sup>3</sup>H]-quipazine and [<sup>3</sup>H]-GR65630 binding. *Br.J.Pharmacol.* **102** 919. PMID: 1830236.

**Peroutka and Hamik** (1988) [<sup>3</sup>H]Quipazine labels 5-HT<sub>3</sub> recognition sites in rat cortical membranes. *Eur.J.Pharmacol.* **148** 297. PMID: 3378579.

**Ireland and Tyers** (1987) Pharmacological characterization of 5-hydroxytryptamine-induced depolarization of the rat isolated vagus nerve. *Br.J.Pharmacol.* **90** 229. PMID: 3814920.

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