

## Certificate of Analysis

**Product Name:** Rizatriptan benzoate

**Catalog No.:** 5136

**Batch No.:** 1

CAS Number: 145202-66-0

IUPAC Name: *N,N*-Dimethyl-5-(1*H*-1,2,4-triazol-1-ylmethyl)-1*H*-indole-3-ethanamine benzoate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>19</sub>N<sub>5</sub>·C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>

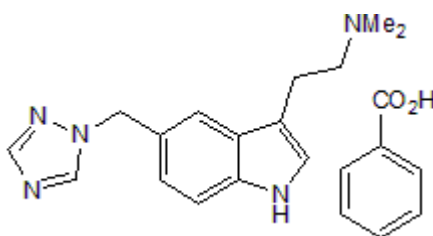
**Batch Molecular Weight:** 391.47

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 50 mM

**Storage:** Store at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.3% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	67.49	6.44	17.89
Found	67.09	6.45	17.8

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**Description:**

5-HT<sub>1B/1D</sub> agonist. Antimigraine agent; attenuates effects of CGRP on light aversion in mice. Orally bioavailable.

**Physical and Chemical Properties:**

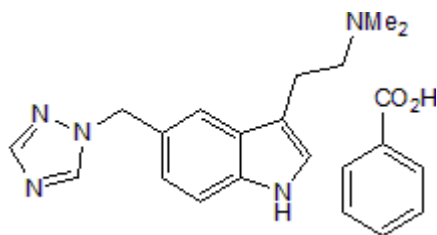
Batch Molecular Formula: C<sub>15</sub>H<sub>19</sub>N<sub>5</sub>.C<sub>7</sub>H<sub>6</sub>O<sub>2</sub>

Batch Molecular Weight: 391.47

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water to 100 mM

DMSO to 50 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:**

**Street et al** (1995) Synthesis and serotonergic activity of *N,N*-dimethyl-2-[5-(1,2,4-triazol-1-ylmethyl)-1*H*-indol-3-yl]ethylamine and analogues: potent agonists for 5-HT<sub>1D</sub> receptors. *J.Med.Chem.* **38** 1799. PMID: 7752204.

**Kaiser et al** (2012) Modulation of CGRP-induced light aversion in wild-type mice by a 5-HT<sub>1B/D</sub> agonist. *J.Neurosci.* **32** 15439. PMID: 23115181.

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