

## Certificate of Analysis

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**Product Name:** 8-Hydroxy-PIPAT oxalate

**Catalog No.:** 0797

**Batch No.:** 2

CAS Number: 1451210-48-2

IUPAC Name: (RS)-trans-8-Hydroxy-2-[N-n-propyl-N-(3'-iodo-2'-propenyl)amino]tetralin oxalate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>16</sub>H<sub>22</sub>INO.C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>

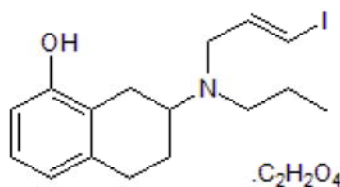
**Batch Molecular Weight:** 461.3

**Physical Appearance:** Off-white solid

**Solubility:** ethanol to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at -20°C

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.45 (Ethyl acetate:Petroleum ether [1:2])

**Melting Point:** Greater than 75°C

**HPLC:** Shows >98.1% purity

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

**Microanalysis:**

|             | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 46.87  | 5.24     | 3.04     |
| Found       | 46.76  | 5.42     | 3.01     |

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

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**Description:**

High affinity 5-HT<sub>1A</sub> receptor agonist (K<sub>d</sub> = 0.38 nM). 7-Hydroxy isomer also available.

**Physical and Chemical Properties:**

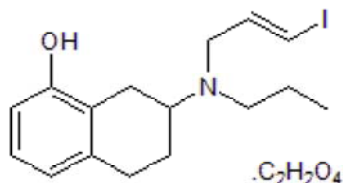
Batch Molecular Formula: C<sub>16</sub>H<sub>22</sub>INO.C<sub>2</sub>H<sub>2</sub>O<sub>4</sub>

Batch Molecular Weight: 461.3

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Desiccate at -20°C

**CAUTION** - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

**Solubility & Usage Info:**

ethanol to 100 mM

DMSO 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.

**Licensing Information:**

Sold with the permission of the University of Pennsylvania

**References:**

**Zhuang et al** (1993) Synthesis of (R,S)-trans-8-Hydroxy-2-[N-n-propyl-N-(3'-iodo-2'-propenyl)amino]tetralin (trans-8-OH-PIPAT): a new 5-HT<sub>1A</sub> receptor ligand. *J.Med.Chem.* **36** 3161. PMID: 8230102.

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