

## Certificate of Analysis

**Product Name:** 6-Iodonordihydrocapsaicin

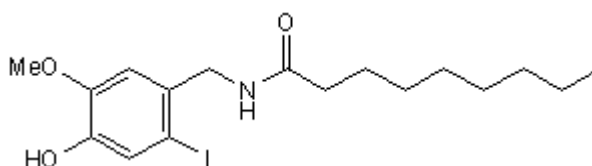
**Catalog No.:** 1975

**Batch No.:** 2

CAS Number: 859171-97-4

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>26</sub>INO<sub>3</sub>  
**Batch Molecular Weight:** 419.3  
**Physical Appearance:** White solid  
**Solubility:** ethanol to 50 mM  
DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.36 (Ethyl acetate:Petroleum ether [4:6])  
**Melting Point:** Between 122 - 123°C  
**HPLC:** Shows >99.6% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**<sup>13</sup>C NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	48.7	6.25	3.34
Found	48.61	6.36	3.26

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

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**Description:**

Potent competitive vanilloid TRPV1 (VR1) receptor antagonist (IC<sub>50</sub> = 10 nM). Inhibits capsaicin-induced [Ca<sup>2+</sup>]<sub>i</sub> increase in rat DRG neurons, and guinea pig bladder and trachea contractions in vitro.

**Physical and Chemical Properties:**

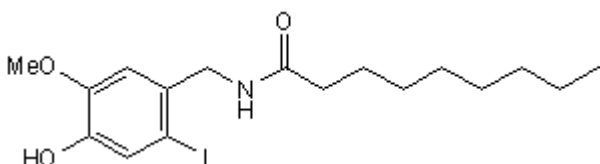
Batch Molecular Formula: C<sub>17</sub>H<sub>26</sub>INO<sub>3</sub>

Batch Molecular Weight: 419.3

Physical Appearance: White solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**Storage:** Store at RT

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 50 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.

**References:**

**Appendino et al** (2003) Halogenation of a capsaicin analogue leads to novel vanilloid TRPV1 receptor antagonists. *Br.J.Pharmacol.* **139** 1417. PMID: 12922928.

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