

## Certificate of Analysis

**Product Name:** WAY 629 hydrochloride

**Catalog No.:** 2173

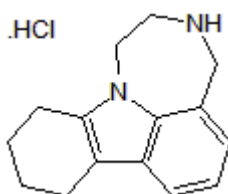
**Batch No.:** 1

CAS Number: 57756-44-2

IUPAC Name: 1,2,3,4,8,9,10,11-Octahydro[1,4]diazepino[6,7,1-*jk*]carbazole hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>15</sub>H<sub>18</sub>N<sub>2</sub>·HCl  
**Batch Molecular Weight:** 262.78  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Desiccate at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.4 (Ethyl acetate:Ammonia solution [99:1])  
**Melting Point:** Greater than 300°C  
**HPLC:** Shows >98.1% purity  
<sup>1</sup>H NMR: Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	68.56	7.29	10.66
Found	68.42	7.2	10.73

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

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**Description:**

Selective 5-HT<sub>2C</sub> agonist. K<sub>i</sub> values are 56, 2350, 1575 and 815 nM for human recombinant 5-HT<sub>2C</sub>, 5-HT<sub>2A</sub>, 5-HT<sub>6</sub> and 5-HT<sub>7</sub> receptors respectively. Stimulates intracellular Ca<sup>2+</sup> mobilization in CHO cells expressing human 5-HT<sub>2C</sub> receptors (EC<sub>50</sub> = 72 nM). Reduces food intake in rats.

**Physical and Chemical Properties:**

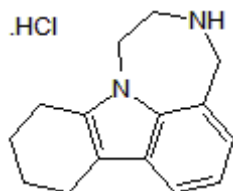
Batch Molecular Formula: C<sub>15</sub>H<sub>18</sub>N<sub>2</sub>.HCl

Batch Molecular Weight: 262.78

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**References:**

**Sabb et al** (2004) Cycloalkyl[*b*][1,4]benzodiazepinoindoles are agonists at the human 5-HT<sub>2C</sub> receptor. *Bioorg.Med.Chem.Lett.* **14** 2603. PMID: 15109661.

**Dunlop et al** (2004) Identification of cycloalkyl[*b*][1,4]benzodiazepinoindoles as novel 5-HT<sub>2C</sub> receptor agonists. *Fund.Clin.Pharmacol.* **18** (Suppl.1) 145.

**Storage:** Desiccate at +4°C

**Solubility & Usage Info:**

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.

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