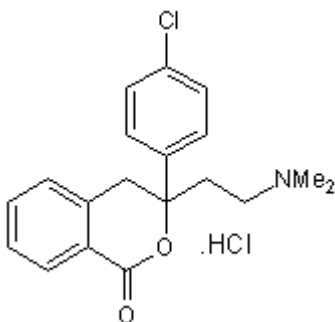


## Certificate of Analysis

**Product Name:** (±)-AC 7954 hydrochloride **Catalog No.:** 2484 **Batch No.:** 2  
**CAS Number:** 477313-09-0  
**IUPAC Name:** (±)-3-(4-Chlorophenyl)-3-[2-(dimethylamino)ethyl]-3,4-dihydro-1*H*-2-benzopyran-1-one hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>19</sub>H<sub>20</sub>ClNO<sub>2</sub>·HCl·½H<sub>2</sub>O  
**Batch Molecular Weight:** 375.29  
**Physical Appearance:** Beige solid  
**Solubility:** water to 75 mM  
DMSO to 75 mM  
ethanol to 50 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.44 (Dichloromethane:Methanol:Ammonia soln. [90:10:2])  
**HPLC:** Shows >98.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.3	5.78	3.82
Found	60.87	5.63	3.75

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IUPAC Name: (±)-3-(4-Chlorophenyl)-3-[2-(dimethylamino)ethyl]-3,4-dihydro-1H-2-benzopyran-1-one hydrochloride

**Description:**

Highly selective, non-peptide urotensin-II (UT) receptor agonist that displays potent activity at human and rat UT receptors (pEC<sub>50</sub> values are 6.5 and 6.7 respectively).

**Physical and Chemical Properties:**

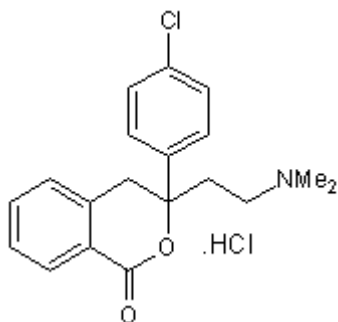
Batch Molecular Formula: C<sub>19</sub>H<sub>20</sub>ClNO<sub>2</sub>.HCl.½H<sub>2</sub>O

Batch Molecular Weight: 375.29

Physical Appearance: Beige solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at +4°C

**Solubility & Usage Info:**

water to 75 mM  
DMSO to 75 mM  
ethanol 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:**

**Croston et al** (2002) Discovery of the first nonpeptide agonist of the GPR14/urotensin-II receptor: 3-(4-chlorophenyl)-3-(2-(dimethylamino)ethyl)isochroman-1-one (AC-7954). *J.Med.Chem.* **45** 4950. PMID: 12408704.

**Lavecchia et al** (2005) Architecture of the human urotensin II receptor: comparison of the binding domains of peptide and non-peptide urotensin II agonists. *J.Med.Chem.* **48** 2480. PMID: 15801838.

**Lehmann et al** (2006) Novel potent and efficacious nonpeptidic urotensin II receptor agonists. *J.Med.Chem.* **49** 2232. PMID: 16570919.

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