

## Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** Cinanserin hydrochloride

**Catalog No.:** 0460

**Batch No.:** 2

CAS Number: 54-84-2

IUPAC Name: *N*-[2-[[3-(Dimethylamino)propyl]thio]phenyl]-3-phenyl-2-propenamide hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>24</sub>N<sub>2</sub>OS.HCl.¼H<sub>2</sub>O

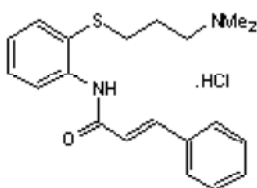
**Batch Molecular Weight:** 381.44

**Physical Appearance:** White solid

**Solubility:** water to 50 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.25 (Dichloromethane:Methanol:Ammonia soln. [9:1:0.1])

**Melting Point:** Between 76 - 91°C

**HPLC:** Shows 99.3% purity

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

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.97	6.74	7.34
Found	63.29	6.8	7.45

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

[www.tocris.com/distributors](http://www.tocris.com/distributors)

Tel: +1 612 379 2956

**Product Name:** Cinanserin hydrochloride

**Catalog No.:** 0460

**Batch No.:** 2

CAS Number: 54-84-2

IUPAC Name: N-[2-[[3-(Dimethylamino)propyl]thio]phenyl]-3-phenyl-2-propenamamide hydrochloride

**Description:**

Cinanserin hydrochloride is a 5-HT<sub>2</sub> antagonist. Also inhibits 3C-like proteinase (3CL<sup>pro</sup>; M<sup>pro</sup>). Inhibits replication of SARS-CoV.

**Physical and Chemical Properties:**

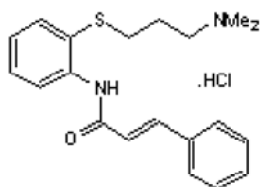
Batch Molecular Formula: C<sub>20</sub>H<sub>24</sub>N<sub>2</sub>OS.HCl.1/4H<sub>2</sub>O

Batch Molecular Weight: 381.44

Physical Appearance: White solid

**Minimum Purity:** ≥99%

**Batch Molecular Structure:**



**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water to 50 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

**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:**

**Chen et al** (2005) Cinanserin is an inhibitor of the 3C-like proteinase of the severe acute respiratory syndrome coronavirus and strongly reduces virus replication *in vitro*. *J.Virol.* **79** 7095. PMID: 15890949.

**Pierce et al** (1992) Molecular structure basis of ligand selectivity for 5-HT<sub>2</sub> versus 5-HT<sub>1C</sub> cortical receptors. *Naunyn Schmiedebergs Arch.Pharmacol.* **346** 4. PMID: 1407003.

**Leysen et al** (1981) Receptor binding profile of R-41-468, a novel antagonist at 5HT<sub>2</sub> receptors. *Life Sci.* **28** 1015. PMID: 6261070.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956