

## Certificate of Analysis

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

**Product Name:** *cis*-6-Hydroxynorketamine hydrochloride

**Catalog No.:** 5982

**Batch No.:** 4

**IUPAC Name:** *cis*-2-Amino-2-(2-chlorophenyl)-6-hydroxycyclohexanone hydrochloride

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>12</sub>H<sub>14</sub>ClNO<sub>2</sub>.HCl

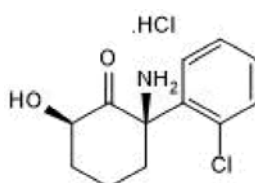
**Batch Molecular Weight:** 276.16

**Physical Appearance:** White solid

**Solubility:** water to 100 mM  
DMSO to 100 mM

**Storage:** Desiccate at RT

**Batch Molecular Structure:**



(and enantiomer)

### 2. ANALYTICAL DATA

**TLC:** R<sub>f</sub> = 0.41 (Ethyl acetate:Methanol [95:5])

**HPLC:** Shows 99.7% purity

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

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.19	5.47	5.07
Found	52.15	5.39	5.01

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:** *cis*-6-Hydroxynorketamine hydrochloride

**Catalog No.:** 5982

**4**

**IUPAC Name:** *cis*-2-Amino-2-(2-chlorophenyl)-6-hydroxycyclohexanone hydrochloride

**Description:**

*cis*-6-Hydroxynorketamine hydrochloride is a metabolite of ketamine. Increases AMPA receptor-mediated excitatory post-synaptic potentials in the CA1 region of hippocampal slices. Exhibits antidepressive effects in vivo. 2S,6S-enantiomer and 2R,6R-enantiomer also available.

**Physical and Chemical Properties:**

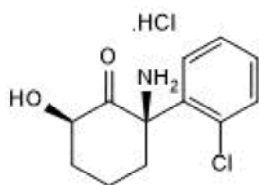
Batch Molecular Formula: C<sub>12</sub>H<sub>14</sub>ClNO<sub>2</sub>.HCl

Batch Molecular Weight: 276.16

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



(and enantiomer)

**Storage:** Desiccate at RT

**Solubility & Usage Info:**

water 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.

**References:**

Zanos *et al* (2016) NMDAR inhibition-independent antidepressant actions of KA metabolites. *Nature* **533** 481. PMID: 27144355.

Leung and Baillie (1986) Comparative pharmacology in the rat of KA and its two principal metabolites, norKA and (Z)-6-hydroxynorKA. *J.Med.Chem.* **29** 2396. PMID: 3783598.

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