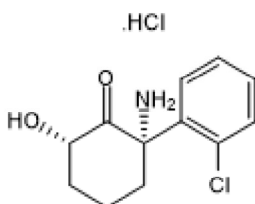


**Product Name:** 2S,6S-Hydroxynorketamine hydrochloride **Catalog No.:** 6095 **Batch No.:** 1  
**CAS Number:** 1430202-70-2  
**IUPAC Name:** (2S,6S)-2-Amino-2-(2-chlorophenyl)-6-hydroxycyclohexanone hydrochloride

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>12</sub>H<sub>14</sub>ClNO<sub>2</sub>.HCl.½H<sub>2</sub>O  
**Batch Molecular Weight:** 285.17  
**Physical Appearance:** White solid  
**Solubility:** water to 50 mM  
DMSO to 100 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.7% purity  
**Chiral HPLC:** Shows 100% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Optical Rotation:** [α]<sub>D</sub> = +111.2 (Concentration = 1, Solvent = Water)

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	50.54	5.66	4.91
Found	50.64	5.41	4.87

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

<b>Product Name:</b>	<b>2S,6S-Hydroxynorketamine hydrochloride</b>	<b>Catalog No.:</b>	<b>6095</b>	<b>1</b>
CAS Number:	1430202-70-2			
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**Description:**

2S,6S-Hydroxynorketamine hydrochloride is a ketamine metabolite. Decreases intracellular D-serine (a NMDA co-agonist) concentrations in PC-12 cells (IC<sub>50</sub> = 0.18 nM). Exerts antidepressant effects in mice. 2R,6R-Enantiomer and Racemate also available.

**Physical and Chemical Properties:**

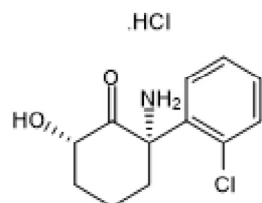
Batch Molecular Formula: C<sub>12</sub>H<sub>14</sub>ClNO<sub>2</sub>·HCl·½H<sub>2</sub>O

Batch Molecular Weight: 285.17

Physical Appearance: White solid

**Minimum Purity:** ≥98%

**Batch Molecular Structure:**



**Storage:** Store at RT

**Solubility & Usage Info:**

water 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. \*Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

**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.

**Licensing Information:**

Sold under license from the NIH, US patent 62/313,309

**References:**

**Singh et al** (2016) KA metabolites enantioselectively decrease intracellular D-serine concentrations in PC-12 cells. PLoS One **11** e0149499. PMID: 27096720.

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

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