

Certificate of Analysis

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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: C₁₂H₁₄ClNO₂.HCl

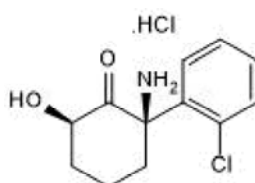
Batch Molecular Weight: 276.16

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_f = 0.41 (Ethyl acetate:Methanol [95:5])

HPLC: Shows >99.8% purity

¹H 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

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

Description:

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:

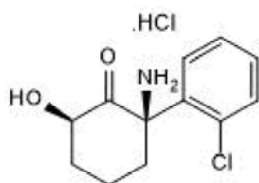
Batch Molecular Formula: C₁₂H₁₄ClNO₂.HCl

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.

Other Information:

INFORMATION FOR CUSTOMERS IN CANADA ONLY

This product is a Schedule I CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

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

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

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