Product Name: 2R,6R-Hydroxynorketamine hydrochloride
Catalog No.: 6094
Batch No.: 2
CAS Number: 1430202-69-9
IUPAC Name: (2R,6R)-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 50 mM, DMSO to 100 mM
- Storage: Desiccate at RT
- Batch Molecular Structure:

2. ANALYTICAL DATA

- HPLC: Shows 100% purity
- Chiral HPLC: Shows 100% purity
- 1H NMR: Consistent with structure
- Mass Spectrum: Consistent with structure
- Microanalysis:
  - Carbon Hydrogen Nitrogen
  - Theoretical: 52.19 5.47 5.07
  - Found: 52.13 5.45 4.92
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CATALOG NO.: 6094
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CAS Number: 1430202-69-9
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Description:
Ketamine metabolite. Enhances AMPA receptor-mediated excitatory post-synaptic potentials in the CA1 region of hippocampal slices. Decreases intracellular D-serine (a NMDA co-agonist) concentrations in PC-12 cells (IC_{50} = 0.68 nM). Exerts antidepressant effects in mice. Lacks ketamine-related side effects. 2S,6S-Enantiomer and Racemate also available.

Physical and Chemical Properties:
Batch Molecular Formula: C12H14ClNO2.HCl
Batch Molecular Weight: 276.16
Physical Appearance: White solid
Minimum Purity: ≥98%

Storage: Desiccate 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. 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.

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

References: