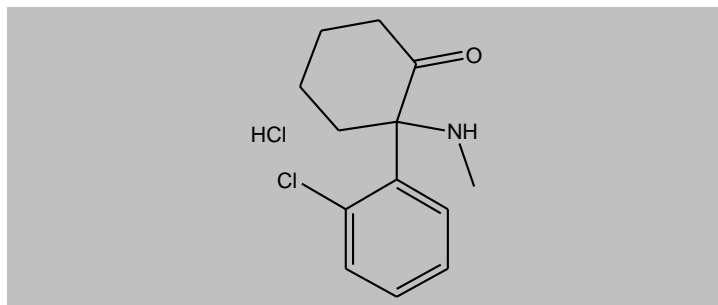


## Ketamine hydrochloride

Cat # NB-48-0519-500MG



### Product Information

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<b>Batch No.:</b>	0226BG/01
<b>Chemical Name:</b>	2-(Methylamino)-2-(2-chlorophenyl)cyclohexanone hydrochloride
<b>Batch Molecular Formula:</b>	C <sub>13</sub> H <sub>16</sub> ClNO .HCl
<b>Batch Molecular Weight:</b>	274.19
<b>CAS No.:</b>	[1867-66-9]
<b>Physical Appearance:</b>	White solid
<b>Melting point:</b>	265° C
<b>Storage:</b>	Ambient

### Solvent and solubility

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Soluble to 200 mg/ml in water

### Biological activity

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A Cyclohexanone derivative used for induction of anesthesia. Ketamine has been reported to produce general as well as local anesthesia. It interacts with N-methyl-D-aspartate (NMDA) receptors, opioid receptors, monoaminergic receptors, muscarinic receptors and voltage sensitive Ca<sup>2+</sup> channels. Unlike other general anesthetic agents, Ketamine does not interact with GABA receptors.

(DEA Schedule III; Home Office Schedule 4.1; Canadian customers require a CDSA import permit)

### References

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1. Annetta et al. (2005) Curr Drug Targets 6:789; 2. Bell et al. (2005) Acta Anaesthesiol Scand 49:1405

- CAUTION - Not fully tested. For Research use only. Not for human use. –

NB-48-0519 Ketamine hydrochloride

## Analytical data

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HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: HPLC Assay: > 99% (complies).

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