

## Certificate Of Analysis

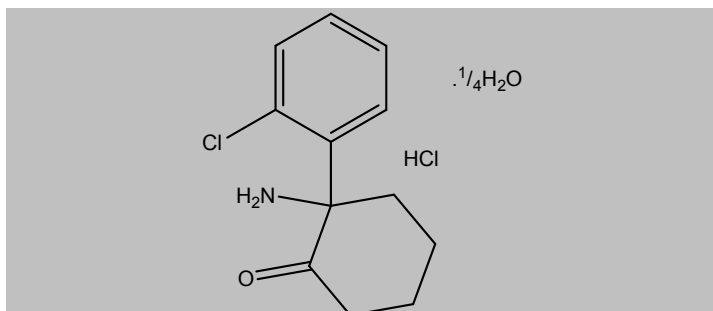
### Quality Control Testing and Research Application

COA Preparation Date: 24/10/2014  
COA Revision Date: 24/10/2017

**Product:** Norketamine hydrochloride  
**Cat. No.:** BN0391  
**Batch No.:** 0391BN/01  
**Chemical Name:** 2-Amino-2-(2-chlorophenyl)cyclohexanone hydrochloride

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>12</sub>H<sub>14</sub>ClNO .HCl .1/4H<sub>2</sub>O  
**Batch Molecular Weight:** 264.66  
**CAS No.:** [35211-10-0]  
**Physical Appearance:** White solid  
**Melting Point:** 230 - 231° C  
**Solubility:** Soluble to 100 mM in water  
**Storage:** RT  
**Batch Molecular Structure:**



**Product Description:** Potent non-competitive NMDA receptor antagonist ( $K_i = 3.6$  nM; [<sup>3</sup>H]-MK 801 displacement in rat brain). Major metabolite of Ketamine (Cat. No. BG0226). Antinociceptive and anesthetic *in vivo*.

**References:** 1. Leung et al. (1986) J Med Chem 29:2396; 2. Ebert et al. (1997) Eur J Pharmacol 333:99; 3. Shimoyama et al. (1999) Pain 81:85; 4. Hijazi and Boulieu (2002) Drug Metab Dispos 30:853

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



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**BN0391 Norketamine hydrochloride**

**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

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

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