



# **Certificate of Analysis**

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**Product Name:** Pancuronium dibromide Catalog No.: 0693 Batch No.: 8

CAS Number: 15500-66-0 EC Number: 239-532-5 **IUPAC Name:** 1,1'- $(3\alpha,17\beta$ -Dihydroxy- $2\beta,5\alpha$ -androstan- $2\beta,16\beta$ -ylene) bis[1-methylpiperidinium] diacetate dibromide

### 1. PHYSICAL AND CHEMICAL PROPERTIES

 $C_{35}H_{60}Br_2N_2O_4.^{3}/_{4}H_2O$ **Batch Molecular Formula:** 

**Batch Molecular Weight:** 746.19 **Physical Appearance:** Pink solid

Solubility: water to 100 mM

DMSO to 20 mM ethanol to 100 mM

Desiccate at RT Storage:

**Batch Molecular Structure:** 

## 2. ANALYTICAL DATA

<sup>1</sup>H NMR: Consistent with structure Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

> Theoretical 56.34 8.31 3.75 3.52 Found 56.32 8.24

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

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## **Product Information**

Print Date: Apr 12th 2019

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CAS Number: 15500-66-0 EC Number: 239-532-5 IUPAC Name:  $1,1'-(3\alpha,17\beta-\text{Dihydroxy-}2\beta,5\alpha-\text{androstan-}2\beta,16\beta-\text{ylene})$  bis[1-methylpiperidinium] diacetate dibromide

### **Description:**

Nicotine (neuromuscular) antagonist. Skeletal muscle relaxant.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>35</sub>H<sub>60</sub>Br<sub>2</sub>N<sub>2</sub>O<sub>4</sub>.<sup>3</sup>/<sub>4</sub>H<sub>2</sub>O

Batch Molecular Weight: 746.19 Physical Appearance: Pink solid

## Minimum Purity: >99%

### **Batch Molecular Structure:**

Storage: Desiccate at RT

## Solubility & Usage Info:

water to 100 mM DMSO to 20 mM ethanol 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.

#### References:

**Lowenick** *et al* (2001) Open channel and competitive block of nicotinic receptors by pancur. and atrac. Eur.J.Pharmacol. *413* 31. PMID: 11173060.

Maestrone et al (1994) Extracellular pancur. affects sodium current in chick embryo sensory neurones. Br.J.Pharmacol. 111 283. PMID: 8012707.

**Fryer and Maclagan** (1987) Pancuronium and gallamine are antagonists for pre- and post-junctional muscarinic receptors in the guineapig lung. Naunyn Schmiedebergs Arch.Pharmacol. **335** 367. PMID: 3600815.

Merck Index **12** 7139.