

# Pancuronium (dibromide)

Catalog No: tcsc2535



## Available Sizes

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

15500-66-0

**Formula:**

$C_{35}H_{60}Br_2N_2O_4$

**Pathway:**

Neuronal Signaling;Membrane Transporter/Ion Channel

**Target:**

nAChR;nAChR

**Purity / Grade:**

>98%

**Solubility:**

H2O :  $\geq 200$  mg/mL (272.97 mM)

**Observed Molecular Weight:**

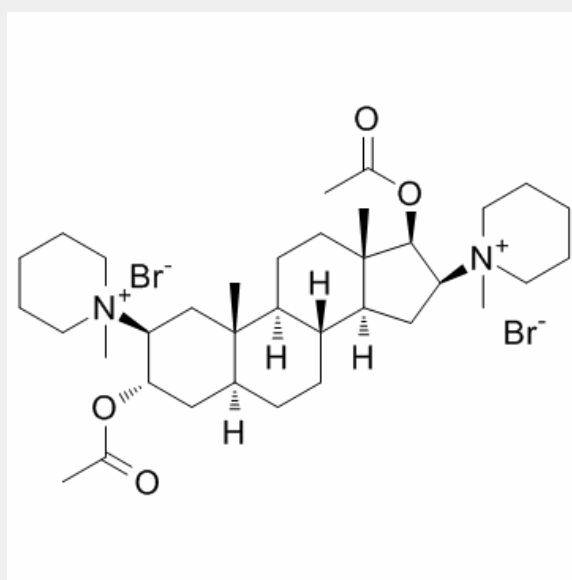
732.67

## Product Description

Pancuronium Dibromide is a bis-quaternary steroid that is a competitive nicotinic antagonist.

Target: nAChR

Pancuronium dibromide is a competitive AChR antagonist ( $IC_{50} = 5.5 \text{ nM}$ ) and acts as a skeletal muscle relaxant. Pancuronium dibromide interrupts neuromuscular transmission by competing with acetylcholine for receptor sites on the motor end-plate. Pancuronium dibromide is a non-depolarizing agent. Pancuronium is a typical non-depolarizing curare-mimetic muscle relaxant. It acts as a competitive acetylcholine antagonist on neuromuscular junctions, displacing acetylcholine (hence competitive) from its post-synaptic nicotinic acetylcholine receptors. It is (unlike suxamethonium) a non-depolarizing agent, which means that it causes no spontaneous depolarizations upon association with the nicotinic receptor in neuromuscular junction, thus producing no muscle fasciculations upon administration [1-3].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!