

# Decamethonium (Bromide)

Catalog No: tcsc2678



## Available Sizes

Size: 5g

Size: 10g



## Specifications

**CAS No:**

541-22-0

**Formula:**

$C_{16}H_{38}Br_2N_2$

**Pathway:**

Neuronal Signaling; Membrane Transporter/Ion Channel

**Target:**

nAChR; nAChR

**Purity / Grade:**

>98%

**Solubility:**

DMSO : 50 mg/mL (119.53 mM; Need ultrasonic)

**Observed Molecular Weight:**

418.29

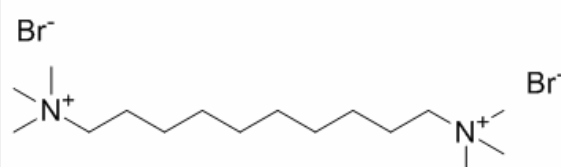
## Product Description

Decamethonium Bromide is a nicotinic AChR partial agonist and neuromuscular blocking agent.

Target: nAChR

Decamethonium (Sincurine) is a depolarizing muscle relaxant or neuromuscular blocking agent, and is used in anesthesia to induce paralysis. Decamethonium, which has a short action time, is similar to acetylcholine and acts as a partial agonist of the nicotinic

acetylcholine receptor. In the motor endplate, it causes depolarization, preventing further effects to the normal release of acetylcholine from the presynaptic terminal, and therefore preventing the neural stimulus from affecting the muscle. In the process of binding, decamethonium actually activates (depolarizes) the motor endplate, but since the decamethonium itself is not degraded, the membrane remains depolarized and unresponsive to normal acetylcholine release [1].



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