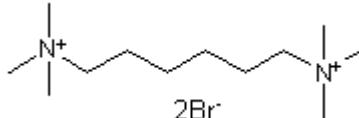


Certificate of Analysiswww.tocris.com**Product Name:** Hexamethonium bromide**Catalog No.:** 4111**Batch No.:** 1

CAS Number: 55-97-0

EC Number: 200-249-7

IUPAC Name: *N,N,N,N',N',N'-Hexamethylhexamethylenediammonium dibromide***1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₁₂H₃₀Br₂N₂.^{1/2}H₂O**Batch Molecular Weight:** 371.2**Physical Appearance:** White solid**Solubility:** water to 100 mM
DMSO to 50 mM**Storage:** Desiccate at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	38.83	8.42	7.55
Found	38.84	8.59	7.47

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

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Product Information

Product Name: Hexamethonium bromide**Catalog No.:** 4111**Batch No.:** 1

CAS Number: 55-97-0

EC Number: 200-249-7

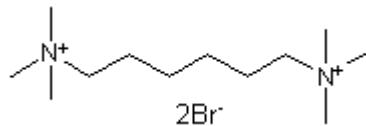
IUPAC Name: *N,N,N,N',N',N'-Hexamethylhexamethylenediammonium dibromide***Description:**

Nicotinic receptor (nAChR) blocker at autonomic ganglia; prevents nicotine-mediated inhibition of apoptosis. Induces changes in neuronal activity similar to the influences of glutamate *in vitro*. Inhibits nicotine-mediated induction of XIAP and survivin.

Physical and Chemical Properties:Batch Molecular Formula: C₁₂H₃₀Br₂N₂.½H₂O

Batch Molecular Weight: 371.2

Physical Appearance: White solid

Batch Molecular Structure:**Storage:** Desiccate at RT**Solubility & Usage Info:**water to 100 mM
DMSO to 50 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:

Karavaev *et al* (2008) The nicotinic receptor blocker hexamethonium alters neuronal responses to glutamate in the medial septal area of the brain of the ground squirrel *in vitro*. *Neurosci.Behav.Physiol.* **38** 297. PMID: 18264777.

Dasgupta *et al* (2010) Nicotine inhibits apoptosis induced by chemotherapeutic drugs by up-regulating XIAP and survivin. *Proc.Natl.Acad.Sci.* **103** 6332.

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