# Data Sheet (Cat.No.T12690)



## Rapacuronium bromide

### **Chemical Properties**

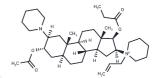
CAS No.: 156137-99-4

Formula: C37H61BrN2O4

Molecular Weight: 677.8

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



## **Biological Description**

Description	Rapacuronium bromide is an allosteric muscarinic acetylcholine receptor (mAChR) modulator.
Targets(IC50)	Others
In vitro	Rapacuronium accelerates the rate of ACh binding but decreases its affinity under equilibrium conditions.? This results in potentiation of receptor activation at low concentrations of rapacuronium (1 microM) but not at high concentrations (10 microM). These observations highlight the relevance and necessity of performing physiological tests under non-equilibrium conditions in evaluating the functional effects of allosteric modulators at muscarinic receptors.
In vivo	Time course of the neuromuscular effects of Rapacuronium following the administration of the 2×ED90 doses to rats and guinea-pigs(ED90 of 5953±199 and 187±16 $\mu$ g/kg in rat and guinea pig, respectively)[2].

## **Solubility Information**

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Solubility	DMSO: 125 mg/mL (184.42 mM),	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

#### **Preparing Stock Solutions**

	1mg	5mg	10mg
1 mM	1.4754 mL	7.3768 mL	14.7536 mL
5 mM	0.2951 mL	1.4754 mL	2.9507 mL
10 mM	0.1475 mL	0.7377 mL	1.4754 mL
50 mM	0.0295 mL	0.1475 mL	0.2951 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Page 1 of 2 www.targetmol.com

### Reference

Jakubík J, et al. Divergence of allosteric effects of Rapacuronium on binding and function of muscarinic receptors. BMC Pharmacol. 2009 Dec 28;9:15.



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Page 2 of 2 www.targetmol.com