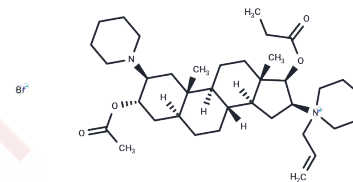


Rapacuronium bromide

Chemical Properties

CAS No. :	156137-99-4
Formula:	C37H61BrN2O4
Molecular Weight:	677.8
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Rapacuronium bromide is an allosteric muscarinic acetylcholine receptor (mAChR) modulator.
Targets(IC50)	Others,AChR
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	The neuromuscular effects of Rapacuronium were assessed over time following the administration of twice the ED90 doses in rats (ED90: 5953±199 µg/kg) and guinea pigs (ED90: 187±16 µg/kg) [2].

Solubility Information

Solubility	DMSO: 125 mg/mL (184.42 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (4.87 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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

Vizi ES, et al. A new short-acting non-depolarizing muscle relaxant (SZ1677) without cardiovascular side-effects. Acta Anaesthesiol Scand. 2003 Mar;47(3):291-300.

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