

Product Information

Rocuronium bromide

Cat. No.: X23-12-YM096

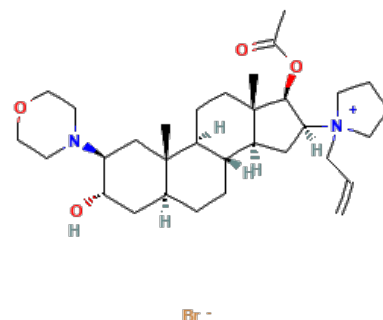
Size: 5 mg; 10 mg; 50 mg; 100 mg

CAS Number: 119302-91-9

PubChem CID: 441351

Synonym: 119302-91-9; Zemuron; Esmeron

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Rocuronium bromide, soluble in DMSO, ethanol and water, interferes with or suppresses the transmission of signals between neurons in the nervous system. It targets AChR.
Molecular Weight	609.6
Molecular Formula	C ₃₂ H ₅₃ BrN ₂ O ₄
Targets	AChR
IUPAC Name	[(2 <i>S</i> , 3 <i>S</i> , 5 <i>S</i> , 8 <i>R</i> , 9 <i>S</i> , 10 <i>S</i> , 13 <i>S</i> , 14 <i>S</i> , 16 <i>S</i> , 17 <i>R</i>)-3-Hydroxy-10, 13-dimethyl-2-morpholin-4-yl-16-(1-prop-2-enylpyrrolidin-1-ium-1-yl)-2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 14, 15, 16, 17-tetradecahydro-1 <i>H</i> -cyclopenta[<i>a</i>]phenanthren-17-yl] acetate;bromide
InChI	InChI=1S/C32H53N2O4.BrH/c1-5-14-34(15-6-7-16-34)28-20-26-24-9-8-23-19-29(36)27(33-12-17-37-18-13-33)21-32(23, 4)25(24)10-11-31(26, 3)30(28)38-22(2)35;/h5, 23-30, 36H, 1, 6-21H2, 2-4H3;1H/q+1;/p-1/t23-, 24+, 25-, 26-, 27-, 28-, 29-, 30-, 31-, 32-;/m0./s1
InChI Key	OYTJKRAYGYRUJK-FMCCZJBLSA-M
Canonical SMILES	CC(=O)OC1C(CC2C1(CCC3C2CCC4C3(CC(C(C4)O)N5CCOCC5)C)C)[N+]6(CCCC6)CC=C.[Br-]
Isomeric SMILES	CC(=O)O[C@H]1[C@H](C[C@@H]2[C@@]1(CC[C@H]3[C@H]2CC[C@@H]4[C@@]3(C[C@@H]([C@H](C4)O)N5CCOCC5)C)C)[N+]6(CCCC6)CC=C.[Br-]
Form	Lyophilized powder
Purity	>98%
Solubility	DMSO: 104 mg/mL (170.58 mM); Water: 104 mg/mL (170.58 mM); Ethanol: 104 mg/mL (170.58 mM)
Stability	The product is stable for three years when stored at the recommended temperature in lyophilized powder.



Applications

Rocuronium bromide can be used as an adjunct to general anesthesia to facilitate endotracheal intubation and provide muscle relaxation during surgical procedures.

Storage

Store at -20°C, and keep desiccated.
