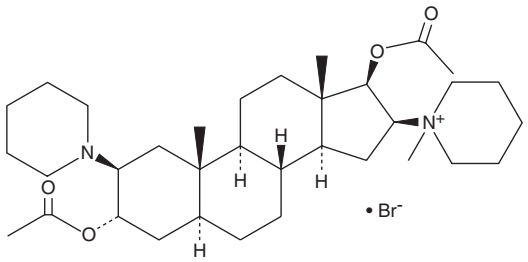
PRODUCT INFORMATION

Vecuronium (bromide)

Item No. 15603

CAS Registry No.: 50700-72-6
Formal Name: 1-[(2β,3α,5α,16β,17β)-3,17-*bis*(acetyloxy)-2-(1-piperidinyl) androstan-16-yl]-1-methyl-piperidinium, monobromide
Synonym: NC 45
MF: $C_{34}H_{57}N_2O_4$ • Br
FW: 637.7
Purity: ≥98%
Supplied as: A solid
Storage: Room temperature
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Vecuronium (bromide) is supplied as a solid. A stock solution may be made by dissolving the vecuronium (bromide) in the solvent of choice. Vecuronium (bromide) is soluble in organic solvents such as ethanol and DMSO, which should be purged with an inert gas. The solubility of vecuronium (bromide) in these solvents is approximately 100 mM. Vecuronium (bromide) is also soluble in water at a concentration of approximately 25 mM.

Description

Vecuronium is a non-depolarizing muscle relaxant derived from the aminosteroid pancuronium (Item No. 23778) and used adjunctively to general anesthesia.[1] It competitively blocks cholinergic receptors at the motor end plate of the neuromuscular junction, inducing temporary paralysis.[2] In humans, it has been shown to reduce muscle twitch tension with an ED_{50} value of 0.15 mg/kg for a duration of 27 minutes without inducing cardiovascular effects.[1]

References

1. Fahey, M.R., Morris, R.B., Miller, R.D., *et al*. Clinical pharmacology of ORG NC45 (Norcuron™): A new nondepolarizing muscle relaxant. *Anesthesiology* **55(1)**, 6-11 (1981).
2. Raghavendra, T. Neuromuscular blocking drugs: Discovery and development. *J. R. Soc. Med.* **95(7)**, 363-367 (2002).

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