

Pancuronium (bromide hydrate)

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Pancuronium is an aminosteroid antagonist of muscle-type nicotinic acetylcholine receptors (nAChRs) with an IC50 value of 14.8 nM using patch clamp electrophysiology in BOSC23 cells expressing mouse nAChRs.1 It acts as a non-depolarizing neuromuscular blocking agent.2 Pancuronium enhances anesthesia induced by isoflurane, reducing immobilization with an ED50 value of 1.62 µg/kg.3
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 5 mg/mL, Sonication is recommended. DMF: 5 mg/mL, Sonication is recommended. PBS (pH 7.2): 1 mg/mL, Sonication is recommended. Ethanol: 10 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

Liu, M., and Dilger, J.P. Site selectivity of competitive antagonists for the mouse adult muscle nicotinic acetylcholine receptor. *Mol. Pharmacol.* 75(1)166-173(2009)

Buckett, W.R., Marjoribanks, C.E., Marwick, F.A., et al. The pharmacology of pancuronium bromide (Org.NA97), a new potent steroidal neuromuscular blocking agent. *Br. J. Pharmacol. Chemother.* 32(3)671-682(1968)

Miyazaki, Y., Sunaga, H., Hobo, S., et al. Pancuronium enhances isoflurane anesthesia in rats via inhibition of cerebral nicotinic acetylcholine receptors. *J. Anesth.* 30(4)671-676(2016)

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