



Product Information

Product ID C3472

CAS No. 96946-42-8

Chemical Name

Synonym

Formula $C_{53}H_{72}N_2O_{12} \cdot 2C_6H_5O_3S$

Formula Wt. 1243.48

Melting Point

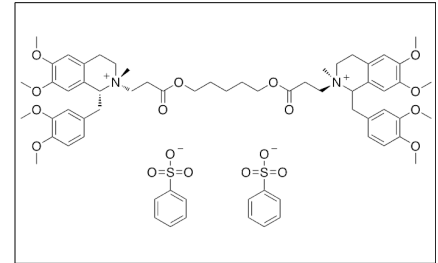
Purity $\geq 98\%$

Solubility

Store Temp Ambient

Ship Temp Ambient

Description Cisatracurium is a non-depolarizing neuromuscular junction (NMJ) blocker; it binds the α - δ interface of postsynaptic nicotinic acetylcholine receptors (nAChRs). Cisatracurium acts as a skeletal muscle relaxant and is an isomer of parent compound atracurium. Cisatracurium also suppresses atrial fibrillation and prevents action potential shortening in vivo, indicating additional inhibition of M2 muscarinic acetylcholine receptors (mAChRs) in the atrium.



Bulk quantities available upon request

Product ID	Size
C3472	5 mg
C3472	25 mg
C3472	100 mg
C3472	500 mg

References Liu M, Dilger JP. Synergy between pairs of competitive antagonists at adult human muscle acetylcholine receptors. *Anesth Analg.* 2008 Aug;107(2):525-33. PMID: 18633030.

Patterson E, Scherlag BJ, Zhou J, et al. Antifibrillatory actions of cisatracurium: an atrial specific M2 receptor antagonist. *J Cardiovasc Electrophysiol.* 2008 Aug;19(8):861-8. PMID: 18363689.

Dilger JP, Vidal AM, Liu M, et al. Roles of amino acids and subunits in determining the inhibition of nicotinic acetylcholine receptors by competitive antagonists. *Anesthesiology.* 2007 Jun;106(6):1186-95. PMID: 17525594.

Jonsson M, Gurley D, Dabrowski M, et al. Distinct pharmacologic properties of neuromuscular blocking agents on human neuronal nicotinic acetylcholine receptors: a possible explanation for the train-of-four fade. *Anesthesiology.* 2006 Sep;105(3):521-33. PMID: 16931985.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.