

Product Name:	Sugammadex Sodium
Product Number:	S117
CAS Number:	343306-79-6
Molecular Formula:	$C_{72}H_{104}O_{48}S_8 \cdot 8Na$
Molecular Weight:	2178.01
Form:	Powder
Appearance:	White to off-white powder
Solubility:	Soluble in water. Practically insoluble in ethanol, methanol, and DMF.
Source:	Synthetic
Storage Conditions:	-20°C
Description:	Sugammadex Sodium is the octasodium salt of Sugammadex. It is a synthetic derivative of gamma-cyclodextrin, discovered by Organon (Scotland). The compound acts as a reversal agent for neuromuscular blocking agents.
Mechanism of Action:	Sugammadex Sodium acts as a reversal agent for neuromuscular blocking agents (rocuronium and vecuronium). It forms a complex with the blocking agent, and reduces the amount of blocking agent available to bind to nicotinic cholinergic receptors in the neuromuscular junction. This compound is biologically inactive and does not bind to plasma proteins, and has no effect on human receptors.
References:	de Boer HD, van Egmond J, van de Pol F, Bom A, Booij LH (2006) Sugammadex, a new reversal agent for neuromuscular block induced by rocuronium in the anaesthetized Rhesus monkey. Br. J. Anaesth.96(4):473-479 PMID 16464982 Hsu H, Lo Y, Huang Y, Tseng Ya nd Wu S (2017) Important modifications by sugammadex, a modified γ-cyclodextrin, of ion currents in differentiated NSC-34 neuronal cells. BMC Neurosci. 18:6 Naguib M (2007) Sugammadex: Another milestone in clinical neuromuscular pharmacology. Anesth. Analg. 104(3):575-581 PMID 17312211