
Product Data Sheet

Product Name: Sugammadex

Cat. No.: GC67613

Chemical Properties

Cas. No. 343306-71-8

Formula $C_{72}H_{112}O_{48}S_8$

M.Wt

2002.15

Solubility

Storage

Store at -20°C

General tips

For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

Sugammadex is a synthetic derivative of γ -cyclodextrin and a steroid-based neuromuscular blocker reversing agent.¹ It binds rocuronium within its cyclodextrin ring and selectively reverses rocuronium-induced neuromuscular blockade over that induced by mivacurium or atracurium in anesthetized rhesus monkeys. Sugammadex also prevents formation of postoperative peritoneal adhesions in rats.² In a rat model of ischemia-reperfusion injury, sugammadex (16 and 100 mg/kg) increases the total number of neurons in the hippocampus compared to control and improves motor coordination in a beam walking test.³

1. de Boer, H.D., van Egmond, J., van de Pol, F., et al. Sugammadex, a new reversal agent for neuromuscular block induced by rocuronium in the anaesthetized Rhesus monkey. *Br. J. Anaesth.* 96(4):473-479(2006) 2. ?ahin, H., Toman, H., Kiraz, H.A., et al. Effects of sugammadex on the prevention of postoperative peritoneal adhesions. *Kaohsiung J. Med. Sci.* 31(9):463-467(2015) 3. Ozbilgin, S., Yilmaz, O., Ergur, B.U., et al. Effectiveness of sugammadex for cerebral ischemia/reperfusion injury. *Kaohsiung, J. Med. Sci.* 32(6):292-301(2016)

Caution: Product has not been fully validated for medical applications. For research use only.

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