
Product Data Sheet

Product Name: Rocuronium

Cat. No.: GC37552

Chemical Properties

Cas. No. 143558-00-3

SMILES O[C@@H]1[C@@H](N2CCOCC2)C[C@@]3(C)[C@](CC[C@]4([H])[C@]3([H])CC[C@@]5(C)[C@@]4([H])C[C@H]([N+]6(CC=C)CCCC6)[C@@H]5OC(C)=O)([H])C1

Formula C₃₂H₅₃N₂O₄ M.Wt 529.77

Solubility Soluble in DMSO 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**

Rocuronium is a non-depolarizing muscle relaxant.¹ It selectively induces neuromuscular blockade in cats (ED₅₀s = 153, 185, 1,329, and 4,119 µg/kg for tibialis, soleus, and vagus muscles, and nictitating membranes, respectively) with a more rapid onset time than vecuronium . Formulations containing rocuronium have been used for surgical anesthesia.²

1. Muir, A.W., Houston, J., Green, K.L., et al. Effects of a new neuromuscular blocking agent (Org 9426) in anaesthetized cats and pigs and in isolated nerve-muscle preparations *Br. J. Anaesth.* 63(4)400-410(1989) 2. Fawcett, W.J., Fauvel, N.J., and Feldman, S.A. Comparison of recovery index of rocuronium or vecuronium with simultaneously administered pancuronium in the isolated forearm *Anaesthesia* 48(3)200-201(1993)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA
