Product Data Sheet

Product Name: SZ1676
Cat. No.: GC31228

Chemical Properties

Cas. No.	159325-23-2		
SMILES	C[C@@]12[C@](C[C@H]([N+]3(CCCC3)CC=C)[C@@H]2OC(C)=O)([H])[C@@]4([H])[C@]([C@@]5([C@@](C[C@H](OC(C)=O)[C@@H](N6CCC7(OCCO7)CC6)C5)([H])CC4)C)([H])CC1.[Br-]		
Formula	$C_{37}H_{59}BrN_2O_6$	M.Wt	707.78
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	SZ1676		

Protocol

Animal experiment:

Dogs[2] Beagle dogs of about 10 kg body weight, anesthetized with isofurane are intubated and mechanically ventilated with O2, One fore-leg is fixed above the elbow and the wrist and the ulnar nerve is stimulated at the elbow, percutaneously,with supramaximal electrical impulses of 0.2 ms duration at 0.1 or 0.4 Hz.The force of flxion of the paw (P) is quantitated and contiuously recorded, At first the ED50, ED90 and ED95 of the 2 muscle relaxants (MR) are determined.Thirty min after maximal spontaneous recovery of P,the calculated 2×ED90 is injected and the time course ol the NM and circulatory effects are determined.

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References:

[1]. Błazewicz A, et al. Application of high-performance liquid chromatography with amperometric and coulometric detection to the analysis of SZ1677, a new neuromuscular blocking agent, and its two derivatives. J Chromatogr A. 2008 Sep 12;1204(1):114-8.
[2]. Francis F. Foldes, et al. Comparison of the Neuromuscular Effects of SZ1676, SZ1677 and Vecuronium in Beagle Dogs. Muscle Relaxants pp 379-379.

Background

SZ1676 is a derivative of SZ1677, which is a neuromuscular blocking agent.

SZ1676 is the 3-acetoxy derivative[1]. The neuromuscular (NM) effects of SZ1676 and SZ1677 are compared in beagle dogs. SZ1677 (ED90=19.2±2.6 μg/kg) is 1.86 times more potent than SZ1676 (ED90=35.8±2.5 μg/kg)[2].

[1]. B?azewicz A, et al. Application of high-performance liquid chromatography with amperometric and coulometric detection to the analysis of SZ1677, a new neuromuscular blocking agent, and its two derivatives. J Chromatogr A. 2008 Sep 12;1204(1):114-8. [2]. Francis F. Foldes, et al. Comparison of the Neuromuscular Effects of SZ1676, SZ1677 and Vecuronium in Beagle Dogs. Muscle Relaxants pp 379-379.