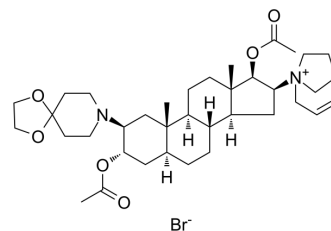


## SZ1676

<b>Cat. No.:</b>	HY-U00162
<b>CAS No.:</b>	159325-23-2
<b>Molecular Formula:</b>	C <sub>37</sub> H <sub>59</sub> BrN <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	707.78
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	SZ1676 is a derivative of SZ1677, which is a neuromuscular blocking agent.
<b>In Vivo</b>	SZ1676 is the 3-acetoxy derivative <sup>[1]</sup> . The neuromuscular (NM) effects of SZ1676 and SZ1677 are compared in beagle dogs. SZ1677 (ED <sub>90</sub> =19.2±2.6 µg/kg) is 1.86 times more potent than SZ1676 (ED <sub>90</sub> =35.8±2.5 µg/kg) <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### PROTOCOL

<b>Animal Administration</b> <sup>[2]</sup>	Dogs <sup>[2]</sup> Beagle dogs of about 10 kg body weight, anesthetized with isofurane are intubated and mechanically ventilated with O <sub>2</sub> . 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 flexion of the paw (P) is quantitated and continuously recorded. At first the ED <sub>50</sub> , ED <sub>90</sub> and ED <sub>95</sub> of the 2 muscle relaxants (MR) are determined. Thirty min after maximal spontaneous recovery of P, the calculated 2×ED <sub>90</sub> is injected and the time course of the NM and circulatory effects are determined. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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### REFERENCES

[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.

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

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