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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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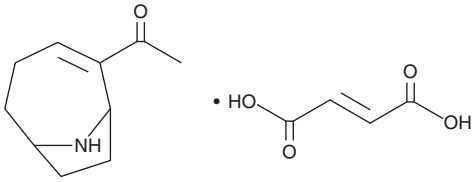
PRODUCT INFORMATION

(±)-Anatoxin A (fumarate)

Item No. 14609

CAS Registry No.:	1219922-30-1
Formal Name:	1-(9-azabicyclo[4.2.1]non-2-en-2-yl)-ethanone, 2-butenedioate
MF:	$C_{10}H_{15}NO \bullet C_4H_4O_4$
FW:	281.3
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

(±)-Anatoxin A (fumarate) is supplied as a solid. A stock solution may be made by dissolving the (±)-anatoxin A (fumarate) in water. The solubility of (±)-anatoxin A (fumarate) in water is approximately 50 mM. We do not recommend storing the aqueous solution for more than one day.

Description

(±)-Anatoxin A is a bicyclic amine isolated from the blue-green alga *A. aquae* that displays high affinity for nicotinic acetylcholine receptors (K_d = 0.1-0.2 µM).[1] It binds α4β2- and α7-type nicotinic receptors with K_i values of 1.3 nM and 1.8 µM, respectively, and stimulates [^{3}H]-dopamine release from striatal synaptosomes with an EC_{50} value of 134 nM.[2]

References

1. Aronstam, R.S. and Witkop, B. Anatoxin-a interactions with cholinergic synaptic molecules. *Proc. Natl. Acad. Sci. USA* **78(7)**, 4639-4643 (1981).
2. Sharples, C.G., Kaiser, S., Soliakov, L., *et al*. UB-165: A novel nicotinic agonist with subtype selectivity implicates the α4β2 subtype in the modulation of dopamine release from rat striatal synaptosomes. *J. Neurosci.* **20(8)**, 2783-2791 (2000).

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