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DATASHEET

(±)-Anatoxin A fumarate

Product overview

Name	(±)-Anatoxin A fumarate
Cat No	HB2023
Alternative names	ANTX
Biological action	Agonist
Purity	>99%
Description	Potent nicotinic agonist. Apoptosis inducer.

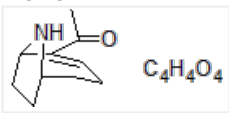
Biological Data

Biological description	Potent nicotinic agonist (K_i values are 1.25 and 1840 nM at $\alpha 4\beta 2$ nM and $\alpha 7$ receptors respectively). Natural alkaloid. Induces fast death via depolarizing blockade of neuromuscular transmission.
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Solubility & Handling

Storage instructions	+4 °C (desiccate)
Solubility overview	Soluble in water (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(±)-2-Acetyl-9-aza bicyclo[4.2.1]non-2-ene fumarate
Molecular Weight	281.31
Chemical structure	 The chemical structure shows a bicyclic amine (9-azabicyclo[4.2.1]non-2-ene) with an acetyl group (-NH-C(=O)-CH3) attached to the 2-position, and a fumarate salt anion (C4H4O4) shown next to it.
Molecular Formula	$C_{10}H_{15}NO \cdot C_4H_4O_4$
CAS Number	1219922-30-1
PubChem identifier	57369796
SMILES	<chem>CC(=O)C1=CCCC2CCC1N2.C(=CC(=O)O)C(=O)O</chem>
Source	Synthetic
InChi	InChI=1S/C10H15NO.C4H4O4/c1-7(12)9-4-2-3-8-5-6-10(9)11-8;5-3(6)1-2-4(7)8/h4,8,10-11H,2-3,5-6H2,1H3;1-2H,(H,5,6)(H,7,8)
InChiKey	ZJSIFVODFDHYJU-UHFFFAOYSA-N
MDL number	MFCD09701958
Appearance	White solid