

(±)-Anatoxin A fumarate**Chemical Properties**

CAS No. : 1219922-30-1

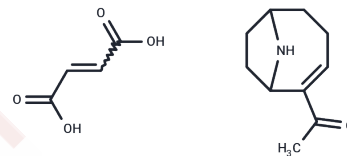
Formula: C₁₄H₁₉NO₅

Molecular Weight: 281.3

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

**Biological Description**

Description	(±)-Anatoxin A fumarate is the salt form of (±)-Anatoxin A. (±)-Anatoxin A is a potent neurotoxic naturally occurring alkaloid known as a rapid death factor (VFDF), a potent, direct, and selective agonist of the nAChR (nicotinic acetylcholine receptor), also known as the nicotinic receptor agonist.
Targets(IC50)	AChR

Solubility Information

Solubility	H ₂ O: 10 mg/mL (35.55 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5549 mL	17.7746 mL	35.5492 mL
5 mM	0.711 mL	3.5549 mL	7.1098 mL
10 mM	0.3555 mL	1.7775 mL	3.5549 mL
50 mM	0.0711 mL	0.3555 mL	0.711 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Afzal A, et al. Anatoxin-a degradation by Advanced Oxidation Processes: vacuum-UV at 172 nm, photolysis using medium pressure UV and UV/H₂O₂. Water Res. 2010 Jan;44(1):278-86.

P Thomas, et al. (+)-Anatoxin-a is a potent agonist at neuronal nicotinic acetylcholine receptors. J Neurochem. 1993 Jun;60(6):2308-11.

Walser TC, Rifat S, Ma X, et al. Antagonism of CXCR3 inhibits lung metastasis in a murine model of metastatic breast cancer. Cancer research, 2006, 66(15): 7701-7707.

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