

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



# DATASHEET

## Dihydroanatoxin-A fumarate (dhATX)

### Product overview

<b>Name</b>	Dihydroanatoxin-A fumarate (dhATX)
<b>Cat No</b>	HB7494
<b>Alternative names</b>	dhATX
<b>Biological action</b>	Agonist
<b>Purity</b>	>95% (NMR)
<b>Description</b>	Less toxic, degradation product of Anatoxin-A

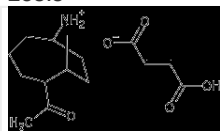
### Biological Data

<b>Biological description</b>	Less toxic, degradation product of Anatoxin-A. Dihydroanatoxin has been isolated and identified in ageing cyanobacteria blooms.
-------------------------------	---

### Solubility & Handling

<b>Storage instructions</b>	-20°C
<b>Solubility overview</b>	Soluble in water (1 mg/ml)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	2-acetyl-9-azabicyclo[4.2.1]nonan-9-ium fumarate (sold as a mixture of isomers)
<b>Molecular Weight</b>	283.3
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>10</sub> H <sub>17</sub> NO.C <sub>4</sub> H <sub>4</sub> O <sub>4</sub>
<b>SMILES</b>	CC(=O)C1CCCC2[NH2+]C1CC2
<b>Source</b>	Synthetic
<b>InChi</b>	InChI=1S/C10H17NO/c1-7(12)9-4-2-3-8-5-6-10(9)11-8/h8-11H,2-6H2,1H3/p+1
<b>InChiKey</b>	MBXOLPUMNTXLOV-UHFFFAOYSA-O
<b>Appearance</b>	White solid

### References

#### Dihydroanatoxin-a Is Biosynthesized from Proline in *Cylindrospermum stagnale* PCC 7417: Isotopic Incorporation Experiments and Mass Spectrometry Analysis.

Méjean A et al (2016) Journal of natural products 79

**PubMedID** [27340731](#)

**Acute toxicity of dihydroanatoxin-a from *Microcoleus autumnalis* in comparison to anatoxin-a.**

Puddick J et al (2021) Chemosphere 263

**PubMedID** [32828056](#)

**Identification of anatoxins in blue-green algae food supplements using liquid chromatography-tandem mass spectrometry.**

Draisci R et al (2001) Food additives and contaminants 18

**PubMedID** [11407751](#)

---