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# **DATASHEET**

Dihydroanatoxin-A fumarate (dhATX)

#### **Product overview**

Name Dihydroanatoxin-A fumarate (dhATX)

Cat No HB7494
Alternative names dhATX
Biological action Agonist
Purity >95% (NMR)

**Description** Less toxic, degradation product of Anatoxin-A

## **Biological Data**

Biological description Less toxic, degradation product of Anatoxin-A. Dihydroanatoxin has been isolated and identified in

ageing cyanobacteria blooms.

# **Solubility & Handling**

Solubility overview Soluble in water (1 mg/ml)

Storage instructions -20°

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

**Shipping Conditions** Stable for ambient temperature shipping. Follow storage instructions on receipt.

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-azabicyclo[4.2.1]nonan-9-ium fumarate (sold as a mixture of isomers)

Molecular Weight 283.3

Chemical structure

**Molecular Formula**  $C_{10}H_{17}NO.C_4H_4O_4$ 

**SMILES** CC(=O)C1CCCC2[NH2+]C1CC2

**Source** Synthetic

InChi InChi=1S/C10H17NO/c1-7(12)9-4-2-3-8-5-6-10(9)11-8/h8-11H,2-6H2,1H3/p+1

InChiKey MBXOLPUMNTXLOV-UHFFFAOYSA-O

**Appearance** 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