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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

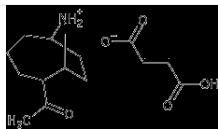
Biological Data

Biological description	Less toxic, degradation product of Anatoxin-A. Dihydroanatoxin has been isolated and identified in ageing cyanobacteria blooms.
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Solubility & Handling

Storage instructions	-20 °C
Solubility overview	Soluble in water (1 mg/ml)
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 ₄ H ₄ O 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
