

PRODUCT INFORMATION

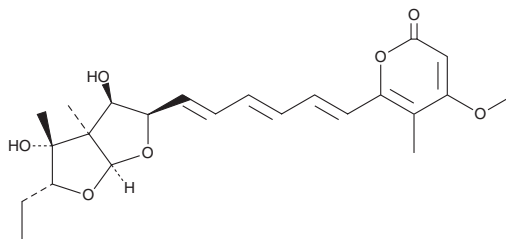


Asteltoxin

Item No. 19622

CAS Registry No.: 79663-49-3

Formal Name: 6-[(1E,3E,5E)-6-
[(2R,3R,3aR,4R,5R,6aS)-5-
ethylhexahydro-3,4-dihydroxy-3a,4-
dimethylfuro[2,3-b]furan-2-yl]-
1,3,5-hexatrien-1-yl]-4-methoxy-5-
methyl-2H-pyran-2-one



MF: C₂₃H₃₀O₇

FW: 418.5

Purity: ≥97%

Supplied as: A solid

Storage: -20°C

Stability: As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly

Special Conditions: Keep cool and dry. Protect from light.

Laboratory Procedures

Asteltoxin is supplied as a solid. A stock solution may be made by dissolving the asteltoxin in the solvent of choice. Asteltoxin is soluble in organic solvents such as ethanol and DMSO.

Description

Asteltoxin is a mycotoxin originally isolated from *Aspergillus* that has been shown to inhibit mitochondrial oxidative phosphorylation.^{1,2} It also inhibits the ATPase activity of BF₁ from *E. coli* (K_d = 8 μM).^{1,3}

References

1. Schreiber, S.L. and Satake, K. Total synthesis of (±)-asteltoxin. *J. Am. Chem. Soc.* **106**, 4186-4188 (1984).
2. Kawai, K., Fukushima, H., and Nozawa, Y. Inhibition of mitochondrial respiration by asteltoxin, a respiratory toxin from *Emericella varicolor*. *Toxicol. Lett.* **28(2-3)**, 73-77 (1985).
3. Satre, M. The effect of asteltoxin and citreomontanine, two polyenic α-pyrone mycotoxins, on *Escherichia coli* adenosine triphosphate. *Biochem. Biophys. Res. Commun.* **100(1)**, 267-274 (1981).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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