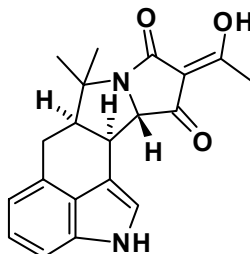


Cyclopiazonic Acid

Code: **BIA-C1244**

Pack sizes: **1 mg, 5 mg**



Synonyms : -

Specifications

CAS #	: 18172-33-3
Molecular Formula	: C₂₀H₂₀N₂O₃
Molecular Weight	: 336.4
Source	: <i>Penicillium griseofulvum</i>
Appearance	: Off-white powder
Purity	: > 98% by HPLC
Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Limited water solubility.

Application Notes

Cyclopiazonic acid is a tremorigenic indole produced by several species of the genera *Aspergillus* and *Penicillium*. Cyclopiazonic acid is a highly specific inhibitor of calcium ATPase of sarcoplasmic reticulum, altering calcium homeostasis and ATP-dependent calcium transport and resulting in the induction of release of intracellular stored Ca²⁺ without increasing IP3.

References

1. The isolation and structure of cyclopiazonic acid, a toxic metabolite of *Penicillium cyclopium* Westling. Holzapfel C. W. Tetrahedron 1968, 24, 2101.
2. Cyclopiazonic acid and related toxins. Holzapfel C. W. In A. Ciegler, S. Kadis and S. J. Ajl (ed.) Microbial toxins, vol. VI. Academic Press Inc., New York. 1971, 435.
3. Isolation of cyclopiazonic acid, cyclopiazonic acid imine and bissecodehydrocyclopiazonic acid from the cultures of *Aspergillus versicolor* (Vuill.) Tiraboshi. Ohmono S. et al. J. Agric. Chem.Soc. 1973, 47, 57.
4. The acute toxicity of the mycotoxin cyclopiazonic acid to rats. Purchase I. F. H. Toxicol. Appl. Pharmacol. 1971, 18, 114.
5. Cyclopiazonic acid is a specific inhibitor of the Ca²⁺-ATPase of sarcoplasmic reticulum. Seidler N. W. et al. J. Biol. Chem. 1989, 264, 17816.