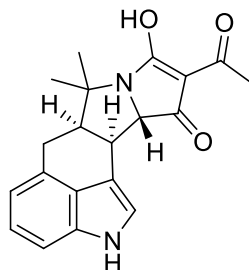


Cyclopiazonic acid

Code No.: **BIA-C1244**

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



Synonyms :

Specifications

CAS #	: 18172-33-3
Molecular Formula	: C ₂₀ H ₂₀ N ₂ O ₃
Molecular Weight	: 336.4
Source	: <i>Penicillium griseofulvum</i>
Appearance	: Off-white powder
Purity	: >95% by HPLC
Long Term 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 *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 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 bisecodehydrocyclopiazonic 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.