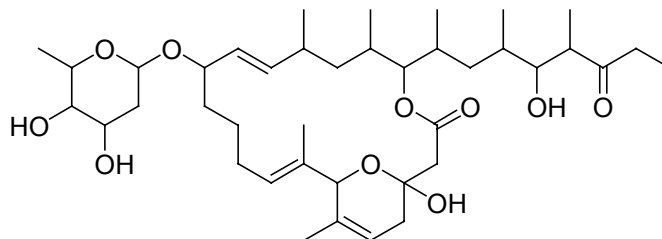


Venturicidin B

Code: **BIA-V1099**

Pack sizes: **0.25 mg, 1.0 mg**



Synonyms : **Aabomycin A2**

Specifications

CAS # : **33538-72-6**
Molecular Formula : **C₄₀H₆₆O₁₀**
Molecular Weight : **707.0**
Source : ***Streptomyces* sp. MST- 117594**
Appearance : **White Lyophilisate**
Purity : **>95% by HPLC**
Long Term Storage : **+4°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

The macrolide antibiotic Venturicidin B, isolated from a *Streptomyces* sp., is a potent inhibitor of mitochondrial ATP synthase complex acting on the F₀ membrane sector. Venturicidin B was originally isolated as an antifungal agent.

References

1. Potassium selective and venturicidin sensitive conductances of F₀ purified from bovine heart mitochondria, reconstituted in planar lipid bilayers. Miedema H. et al. *Biochem. Biophys. Res. Commun.* **1994**, 203, 1005.
2. Studies on the mechanism of oxidative phosphorylation. ATP synthesis by submitochondrial particles inhibited at F₀ by venturicidin and organotin compounds. Matsuno-Yagi A. & Hatefi Y. *J. Biol. Chem.* **1993**, 268, 6168.
3. Amino acid substitutions in mitochondrial ATP synthase subunit 9 of *Saccharomyces cerevisiae* leading to venturicidin or ossamycin resistance. Galanis M. et al. *FEBS Lett.* **1989**, 249, 333.