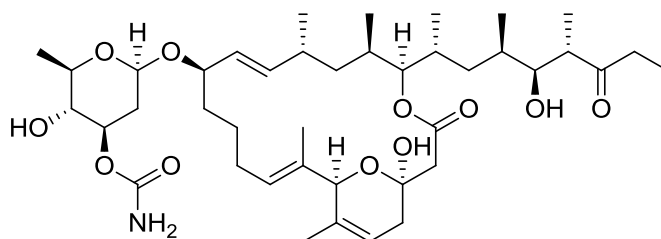


## Venturicidin A

Code No.: **BIA-V1098**

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



Synonyms : Aabomycin A1

### Specifications

CAS #	: 33538-71-5
Molecular Formula	: <b>C<sub>41</sub>H<sub>67</sub>NO<sub>11</sub></b>
Molecular Weight	: <b>750.0</b>
Source	: <b><i>Streptomyces</i> sp.</b>
Appearance	: <b>White Lyophilisate</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</b>

### Application Notes

The macrolide antibiotic, Venturicidin A, isolated from a *Streptomyces* sp., is a potent inhibitor of mitochondrial ATP synthase complex acting on the F<sub>0</sub> membrane sector. Venturicidin A was originally isolated as an antifungal agent.

### References

1. Studies on the mechanism of oxidative phosphorylation. ATP synthesis by submitochondrial particles inhibited at F<sub>0</sub> by venturicidin and organotin compounds. Matsuno-Yagi A. & Hatefi Y. J. Biol. Chem. 1993, 268, 6168.
2. Potassium selective and venturicidin sensitive conductances of F<sub>0</sub> purified from bovine heart mitochondria, reconstituted in planar lipid bilayers. Miedema H. et al., Biochem. Biophys. Res. Commun. 1994, 203, 1005.
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.