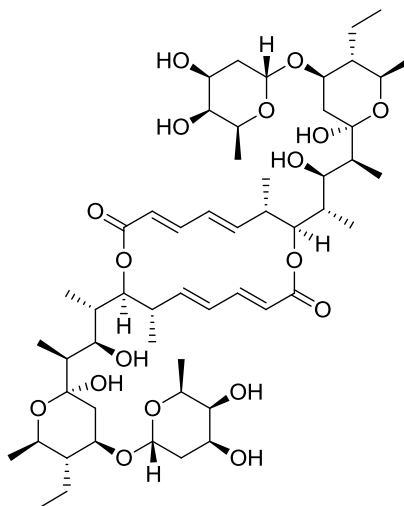


Elaiophylin

Code No.: **BIA-E1028**

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



Synonyms : 255-E, 5001B, 56-62, 846 I, SNA 4606-3, Azalomycin B, Gopalamicin, Salbomycin

Specifications

CAS #	: 37318-06-2
Molecular Formula	: C₅₄H₈₈O₁₈
Molecular Weight	: 1025.3
Source	: <i>Streptomyces hygroscopicus</i>
Appearance	: White Lyophilisate
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Elaiophylin is a highly characteristic metabolite produced by *Streptomyces hygroscopicus*. Elaiophylin inhibits testosterone 5-reductase. Elaiophylin is synergistic with its co-metabolite, rapamycin, as an antifungal. Elaiophylin also has anthelmintic and immunosuppressive activity and inhibits NO synthesis. Elaiophylin displays broad, albeit weak, biological activity against bacteria, nematodes, protozoa and mammalian tumor cells.

References

1. Cation selective ion channels formed by macrodiolide antibiotic elaiophylin in lipid bilayer membranes. Grigoriev P.A. et al., Bioelectrochemistry 2001, 54, 11.
2. Enhancement of the antifungal activity of rapamycin by the coproduced elaiophylin and nigericin. Fang A. et al., J Antibiot. 2000, 53,158.