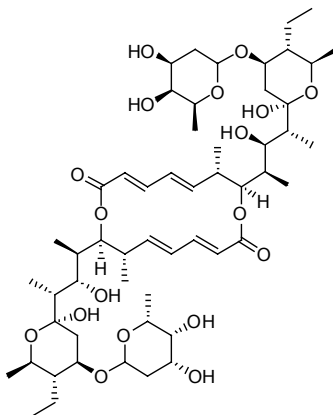


Elaiophylin

Code: **BIA-E1028**

Pack sizes: **1.0 mg, 5.0 mg**



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

Specifications

CAS # : **37318-06-2**
Molecular Formula : **C₅₄H₈₈O₁₈**
Molecular Weight : **1025.3**
Source : ***Streptomyces hygroscopicus* MST-AS5386**
Appearance : **White solid**
Purity : **> 95% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Elaiophylin is a highly characteristic metabolite produced by *Streptomyces hygroscopicus*. Elaiophylin inhibits testosterone 5-reductase. It has synergistic antifungal activity with its co-metabolite rapamycin. It has also been found to have anthelmintic and immunosuppressive activity and to inhibit nitric oxide synthesis. Elaiophylin displays broad, albeit weak, biological activity against bacteria, nematodes, protozoa and mammalian tumour 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.