

Product Name:	Elaiophylin
Product Number:	E032
CAS Number:	37318-06-2
Molecular Formula:	C ₅₄ H ₈₈ O ₁₈
Molecular Weight:	1025.3
Appearance:	White Lyophilisate
Storage Conditions:	>95% by HPLC
Description:	<p>Elaiophylin is a highly characteristic metabolite produced by <i>Streptomyces hygroscopicus</i>. 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.</p> <p>Elaiophylin is soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.</p>
References:	<p>Cation selective ion channels formed by macrodiolide antibiotic elaiophylin in lipid bilayer membranes. Grigoriev P.A. et al. Bioelectrochemistry 2001, 54, 11.</p> <p>Enhancement of the antifungal activity of rapamycin by the coproduced elaiophylin and nigericin. Fang A. et al. J Antibiot. 2000, 53,158.</p>