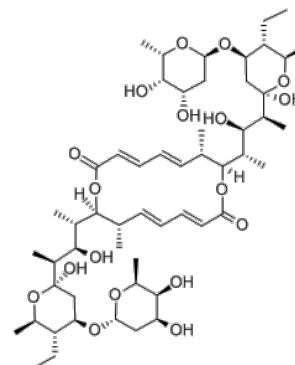


Product Name : Elaiophylin
Cat. No. : PC-63057
CAS No. : 37318-06-2
Molecular Formula : C₅₄H₈₈O₁₈
Molecular Weight : 1025.3
Target : Autophagy
Solubility : 10 mM in DMSO



Biological Activity

Elaiophylin (Gopalamicin;Salbomycin;Azalomycin B) is a macrodiolide antibiotic that shows in vitro anti-protozoal activity against both Plasmodium and Trypanosoma (IC₅₀=370 and 460 ng/ml, respectively) and cytotoxicity against human fetal lung fibroblast MRC-5 cells (IC₅₀=870 ng/ml).

Elaiophylin also is a novel **autophagy** inhibitor that promotes autophagosome accumulation but blocks autophagic flux by attenuating lysosomal cathepsin activity, resulting in the accumulation of SQSTM1/p62 in various cell lines.

References

Otoguro K, et al. *J Antibiot (Tokyo)*. 2010 May;63(5):275-7.

Zhao X, et al. *Autophagy*. 2015;11(10):1849-63.

Wang G, et al. *Cancer Biol Ther*. 2017 Jul 18:1-12.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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