WARNING
This product is for research only - not for human or veterinary diagnostic or therapeutic use.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman’s Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Elaiophylin
Item No. 15583

CAS Registry No.: 37318-06-2
Synonyms: Azalomycin-B, Gopalarin, Salbomycin
MF: C54H88O18
FW: 1,025.3
Purity: ≥95%
Supplied as: A neat solid
Storage: -20°C
Stability: ≥2 years
Special Conditions: Protect from light when in solution.
Item Origin: Bacterium/Streptomyces hygroscopicus

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Elaiophylin is supplied as a neat solid. A stock solution may be made by dissolving the elaiophylin in the solvent of choice. Elaiophylin is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. Elaiophylin may undergo transformation to methyl ketal when stored in methanol.

Description

Elaiophylin is a macrodiolide antibiotic that can be isolated from various strains of Streptomyces.1,2 It displays in vitro anti-protozoal activity against both Plasmodium and Trypanosoma (IC50s = 370 and 460 ng/ml, respectively) and cytotoxicity against human fetal lung fibroblast MRC-5 cells (IC50 = 870 ng/ml).3 Elaiophylin alone has no activity against Candida, although it enhances the anti-fungal activity of rapamycin (Item No. 13346).2 Elaiophylin also forms stable, long-lasting ion channels in bilayer membranes that are selective for cations.4

References