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DATASHEET

Elaiophylin

Product overview

Name	Elaiophylin
Cat No	HB0273
Purity	>95%
Description	Macrolide antibiotic

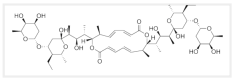
Biological Data

Biological description	Macrolide antibiotic. Testosterone 5-reductase and Mg^{2+}- ATPase inhibitor. Shows anthelmintic and immunosuppressive actions. Enhances the antifungal actions of rapamycin.

Solubility & Handling

Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Azalomycin-B; Gopalamicin; Salbomycin
Molecular Weight	1025.27
Chemical structure	
Molecular Formula	$C_{54}H_{88}O_{18}$
CAS Number	37318-06-2
PubChem identifier	6444206
SMILES	CC[C@H]1[C@@H](C[C@](O[C@@H]1C)(O)[C@H]([C@H](O)[C@@H]([C@H]2OC(=O)/C=C/C=C/[C@@H]([C@H](OC(=O)/C=C/C=C/[C@@H]2C)[C@H]([C@@H](O)[C@@H]([C@@]3(O[C@@H]([C@H]([C@@H](C3)O[C@@H]4O[C@H]([C@H]([C@H](C4)O)O)C)CC)C)O)C)C)C)C)O[C@@H]5O[C@H]([C@H]([C@H](C5)O)O)C

References

Characterization of the correlation between ATP-dependent aminophospholipid translocation and Mg2+-ATPase activity in red blood cell membranes.

Beleznay Z *et al* (1997) Eur J Biochem 243(1-2)
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SNA-4606-1, a new member of elaiophylins with enzyme inhibition activity against testosterone 5 alpha-reductase.

Nakakoshi M *et al* (1999) J Antibiot (Tokyo) 52(2)
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Enhancement of the antifungal activity of rapamycin by the coproduced elaiophylin and nigericin.

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