Catalog # 10-3289
Hymeglusin
CAS# 29066-42-0
11-[3R-(Hydroxymethyl)-4-oxo-2R-oxetanyl]-3,5,7R-trimethyl-2E,4E-undecadienoic acid
L-659699; Antibiotic 1233A; Antibiotic F244
Lot # X107865

Inhibitor of eukaryotic mevalonate biosynthesis via inhibition of HMG-CoA synthase, IC₅₀=0.12 µM.¹ Acts via covalent modification of the active site Cys129.¹² Inhibits cholesterol biosynthesis in rats (45% at 25 mg/Kg).¹ Also inhibits bacterial HMG-CoA synthase.³ Inhibits dengue virus replication.⁴

1) Greenspan et al. (1987), Inhibition of hydroxymethylglutaryl-coenzyme A synthase by L-659,699; Proc. Natl. Acad. Sci. USA, 84 7488
2) Tomoda et al. (2004), Binding site for fungal beta-lactone hymeglusin on cytosolic 3-hydroxy-3-methylglutaryl coenzyme A synthase; Biochem. Biophys. Acta, 1636 22
3) Skaff et al. (2012), Biochemical and structural basis for inhibition of Enterococcus faecalis hydroxymethylglutaryl-CoA synthase, mvaS, by hymeglusin; Biochemistry, 51 4713
4) Rothwell et al. (2009), Cholesterol biosynthesis modulation regulates dengue viral replication; Virology, 389 8

**PHYSICAL DATA**

Molecular Weight: 324.41
Molecular Formula: C₁₈H₂₈O₅
Purity: 96% by HPLC
NMR: (Conforms)
Solubility: DMSO (up to 25 mg/ml)
Physical Description: White solid
Storage and Stability: Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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