

Product Name : Oligomycin A

Synonyms : MCH 32

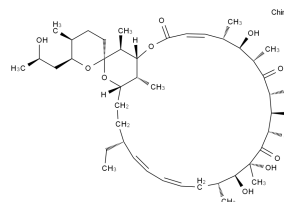
Cat No. : M15123

CAS Number : 579-13-5

Molecular Formula : CHO

Formula Weight : 791.06

Chemical Name : (1S,2'R,4E,5'R,6R,6'S,7S,8R,10S,11S,12R,14S,15R,16S,18E,20E,22S,25R,28R,29S)-22-ethyl-3',4',5',6'-tetrahydro-7,11,14,15-tetrahydroxy-6'-[(1Z)-2-hydroxy-1-propen-1-yl]-5',6,8,10,12,14,16,28,29-nonamethyl-spiro[2,26-dioxabicyclo[23.3.1]nonacosa-4,18,20-triene-27,2'-[2H]pyran]-3,9,13-trione



Description : Oligomycin A, created by Streptomyces, acts as a mitochondrial F0F1-ATPase inhibitor, with a Ki of 1 µM; Oligomycin A shows anti-fungal activity.

Pathway : Endocrinology/Hormones

Target : ATPase

Receptor : Ki: 1 µM (F0F1-ATPase)

Solubility : N/A

SMILES : O=C/C=C/[C@@H](C)[C@H](O)[C@@H](C)C([C@@H](C)[C@H](O)[C@H]1C=O)O[C@]([C@H]2C)([H])[C@@H](C)[C@]3(C)C[C@@H](C)[C@@H](/C=C(O)C)O3)O[C@]2([H])CC[C@H](CC)/C=C/C/C[C@H](C)[C@@H](O)[C@](C)(O)C1=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Salomon AR, et al. Apoptolidin, a selective cytotoxic agent, is an inhibitor of F0F1-ATPase. Chem Biol. 2001 Jan;8(1):71-80. 2. Ramió-Lluch L, et al. Oligomycin A-induced inhibition of mitochondrial ATP-synthase activity suppresses boar sperm motility and in vitro capacitation achievement without modifying overall sperm energy levels. Reprod Fertil Dev. 2014;26(6):883-97.