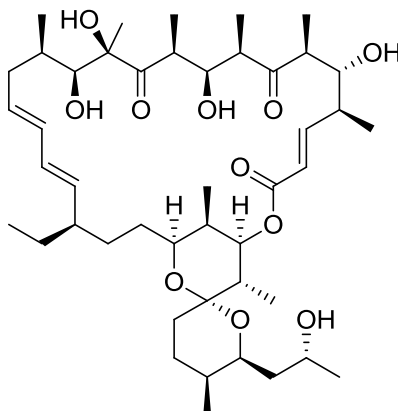


Oligomycin A

Code No.: **BIA-O1059**

Pack sizes: **5 mg, 25 mg**



Synonyms :

Specifications

CAS #	: 579-13-5
Molecular Formula	: C ₄₅ H ₇₄ O ₁₁
Molecular Weight	: 791.1
Source	: <i>Streptomyces</i> sp.
Appearance	: White Lyophilisate
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility.

Application Notes

Oligomycin A is the dominant analogue of a class of macrocyclic lactones isolated from selected strains of *Streptomyces* sp. Oligomycin A is an inhibitor of mitochondrial F1F0-ATPase. It induces apoptosis in a variety of cell types, makes cells more susceptible to cell death, and also leads to a switch in the death mode from apoptosis to necrosis. Oligomycin A exhibits a broad biological profile including antifungal, antitumor and nematocidal activities.

References

1. Age-dependent cell death and the role of ATP in hydrogen peroxide-induced apoptosis and necrosis. Miyoshi N., et al., Proc. Natl Acad. Sci. U. S. A., 2006, 103, 1727.
2. Mitochondria in eosinophils: functional role in apoptosis but not respiration. Peachman K. K., et al., Proc. Natl Acad. Sci. U. S. A., 2001, 98, 1717.
3. The BH3 domain is required for caspase-independent cell death induced by Bax and oligomycin. Fitch M. E., et al., Cell Death Differ., 2000, 7, 338.