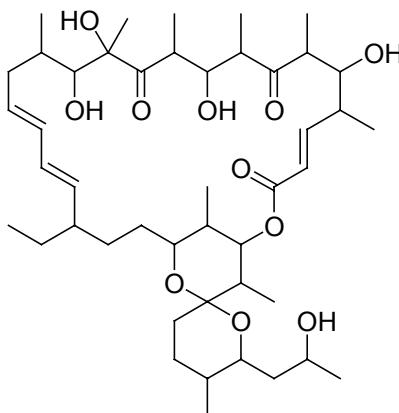


Oligomycin A

Code: **BIA-O1059**

Pack sizes: **5.0 mg, 25 mg**



Synonyms :

Specifications

CAS # : **579-13-5**
Molecular Formula : **C₄₅H₇₄O₁₁**
Molecular Weight : **791.1**
Source : ***Streptomyces* sp. MST- AS5339**
Appearance : **White solid**
Purity : **> 95% by HPLC**
Long Term Storage : **-20°C**
Solubility : **Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Oligomycin A is the dominant analogue of a class 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 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. USA* **2006**, 103, 1727.
2. Mitochondria in eosinophils: functional role in apoptosis but not respiration. Peachman K.K. et al. *Proc. Natl Acad. Sci. USA* **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.