

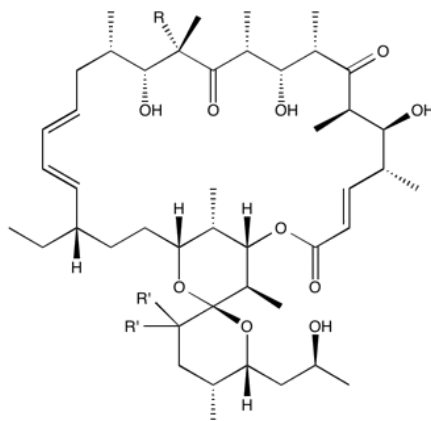
**Catalog # 10-2092**

**Oligomycin**

CAS# 1404-19-9

From *Streptomyces* sp.

Lot # X101739



Oligomycin A: R = OH, R' = H  
Oligomycin B: R = OH, R' = ketone  
Oligomycin C: R = H, R' = H

Inhibits mitochondrial F1F0 ATP synthase.<sup>1</sup> A useful tool for decreasing cellular ATP levels.<sup>2</sup> Induces autophagy.<sup>3</sup> Stimulates lysosome acidification.<sup>4</sup> Protects against ischemic kidney in male rats.<sup>5</sup>

- 1) Antoniel *et al.* (2014), *The oligomycin-sensitivity conferring protein of mitochondrial ATP synthase: emerging new roles in mitochondrial pathophysiology*; J. Mol. Sci., **15** 7513
- 2) Ng *et al.* (2014), *Essential role of TID1 in maintaining mitochondrial membrane potential homogeneity and mitochondrial DNA integrity*; Mol. Cell Biol., **34** 1427
- 3) Tettamonti *et al.* (2006), *Oligomycin A induces autophagy in the IPLB-LdFB insect cell line*; Cell Tissue Res., **326** 179
- 4) van Dyke *et al.* (1993), *Acidification of rat liver lysosomes: quantification and comparison with endosomes*; Am. J. Physiol., **265** C901
- 5) Tanaka *et al.* (2013), *Oligomycin, an F1Fo-ATPase inhibitor, protects against ischemic acute kidney injury in male but not in female rats*; J. Pharmacol. Sci., **123** 227

**PHYSICAL DATA**

Molecular Weight:	791.06
Molecular Formula:	C <sub>45</sub> H <sub>74</sub> O <sub>11</sub> (for Oligomycin A)
Purity:	Mixture of Oligomycin A (79.71%), B (11.93%), and C (6.11%) 97% by TLC NMR: (Conforms)
Solubility:	DMSO (up to 300 mg/ml), or Ethanol (up to 200 mg/ml)
Physical Description:	White solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 2 years from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**