Catalog # 10-2092
Oligomycin
CAS# 1404-19-9
From Streptomyces sp.
Lot # X101736

Inhibits mitochondrial F1F0 ATP synthase.\(^1\) A useful tool for decreasing cellular ATP levels.\(^2\) Induces autophagy.\(^3\) Stimulates lysosome acidification.\(^4\) Protects against ischemic kidney in male rats.\(^5\)

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: \(\text{C}_{45}\text{H}_{74}\text{O}_{11}\) (for Oligomycin A)
Purity: Mixture of Oligomycin A (67.5%), B (19.4%), and C (9.8%) 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.

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462  
www.focusbiomolecules.com