



Product Information

Oligomycin from *Streptomyces diastatochromogenes*

Product Number **O 4876**
Storage Temperature -0 °C

Product Description

CAS Number: 1404-19-9
MW: Oligomycin A = 791
Oligomycin B = 805.1
Oligomycin C = 775.1¹

λ_{\max} (E^{mM}):

Oligomycin A: 242 nm (18.5), 232 nm (32.9), 225 nm (37.4), 220 nm (34.0)
Oligomycin B: 242 nm (17.7), 233 nm (29.3), 224 nm (32.2), 218 nm (31.7)
Oligomycin C: 239 nm (16.9), 231 nm (29.2), 224 nm (33.5), 219 nm (32.7)

This product is a mixture of oligomycins A, B, and C. The product contains approximately 65% as oligomycin A. The amount of oligomycins B and C are not determined.

Oligomycin is an inhibitor of H⁺ transporting ATP synthase² and an inhibitor of Na⁺/K⁺ transporting ATPase.³

Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

Preparation Instructions

Oligomycin is soluble in DMSO (50 mg/ml) and in ethanol (250 mg/ml). It is soluble in acetone (50 mg/ml), yielding a clear solution.

Storage/Stability

Oligomycin is fairly stable in solution. It should be stable dissolved in ethanol for at least a week at 0-4 °C and for several months when stored frozen in aliquots at -20 °C.

References

1. J. Org. Chem., **51**, 4264-4271 (1986).
2. Slater, E. C., Application of Inhibitors and Uncouplers for a Study of Oxidative Phosphorylation. Meth. Enzymol., **10**, 48-57 (1967).
3. Robinson, J. D., and Flashner, M. S., The (Na⁺/K⁺)-activated ATPase. Enzymatic and Transport Properties. Biochim. Biophys. Acta, **549(2)**, 145-176 (1979).

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