Oligomycin A
Item No. 11342

CAS Registry No.: 579-13-5
Synonym: MCH 32
MF: C64H82O11
FW: 791.1
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} = 225 nm

Laboratory Procedures
For long term storage, we suggest that oligomycin A be stored as supplied at -20°C. It should be stable for at least two years.

Oligomycin A is supplied as a crystalline solid. A stock solution may be made by dissolving the oligomycin A in the solvent of choice. Oligomycin A is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of oligomycin A in these solvents is approximately 20 mg/ml.

Oligomycin A is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, oligomycin A should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Oligomycin A has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description
Oligomycins are macrolides created by Streptomyces species that can be toxic to other organisms. Different oligomycin isomers are highly specific for the disruption of mitochondrial metabolism. Oligomycin A, a dominant analog of the isomers, is an inhibitor of mitochondrial F_{0}F_{1}-ATP synthase that induces apoptosis in a variety of cell types (average GI_{50} = 270 nM).\(^3\) Oligomycin A exhibits antifungal, antitumor, and nematocidal activities, but has poor solubility in water and other biocompatible solvents, which limits its clinical application.\(^4\)

References

**WARNING:** This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.

SafETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via E-Mail.

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