



Lyophilized DOPC/DOPE/CHOL ATP Liposome

Catalog: Lipo-213RG

The encapsulation of ATP in liposomes markedly promotes its effectiveness by preventing the hydrolysis by extracellular enzymes, increasing ATP circulation time and enhancing its intracellular penetration. ATP liposomes can be used in various models such as myocardial, liver, retina and wound healing ischemia. Studies have shown the ability of liposomal encapsulated ATP to prevent cell death and tissue dysfunction following ischemic events. The concentration of encapsulated ATP is 0.5? mol/vial. Creative Biostructure could customize different DOPC/DOPE/CHOL I ratio to meet your requirements. We can also manufacture empty lyophilized liposomes (without ATP) for control with the same lipid composition as your desired.

PRODUCT INFORMATION

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Lipid Composition	DOPC/DOPE/CHOL (0.75/0.45/0.30 μ mol/vial) DOPC: 1,2-dioleoyl-sn-glycero-3-phosphocholine DOPE: 1,2-dioleoyl-sn-glycero-3-phosphoethanolamine CHOL: Cholesterol
Form	Lyophilized Powder
Storage Buffer	PBS, pH 7.4 with trehalose as lyoprotectant
Concentration	Lipid Concentration 1.5 μ mol/vial
Stability	6 months
Storage	-20°C

USAGE GUIDELINES

General Handling	Avoid excessive mixing or vortexing to prevent aggregation. Long-term storage above -80°C may result in aggregate formation. Thaw on ice before use.
Storage	Short term: +2°C to +8°C (up to 1 week) Long term: -80°C (stable for 12 months)
Stability	Stable for 12 months at -80°C. Avoid repeated freeze-thaw cycles.
Freeze / Thaw	Can be frozen, but limit to ≤ 3 freeze/thaw cycles to maintain particle integrity.

Important: This product is for **research use only**. Not intended for diagnostic or therapeutic applications. Please refer to the Safety Data Sheet (SDS) for complete handling and safety information.