

## Product Information

### Cardiolipin, Purity $\geq 98\%$

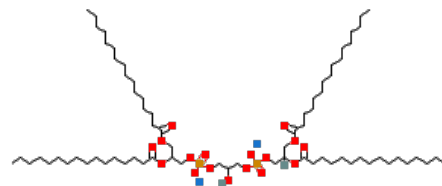
**Cat. No.:** X24-09-YM1176

**Size:** 5 mg; 10 mg; 25 mg; 50 mg

**CAS Number:** 64043-42-1

**Compound CID:** 158346230

**Synonym:** 64043-42-1; Disodium; [3-[2,3-di(hexadecanoyloxy)propoxy-oxidophosphoryl]oxy-2-hydroxypropyl] 2,3-di(hexadecanoyloxy)propyl phosphate



**This product is for research use only and is not intended for diagnostic use.**

#### Product Information

<b>Description</b>	Cardiolipin is an important component of the inner mitochondrial membrane. The molecular weight of the compound is 1397.82, and its molecular formula is $C_{73}H_{140}O_{17}P_2 \cdot 2Na$ .
<b>Molecular Weight</b>	1397.82
<b>Molecular Formula</b>	$C_{73}H_{140}O_{17}P_2 \cdot 2Na$
<b>IUPAC Name</b>	Disodium;[3-[2,3-di(hexadecanoyloxy)propoxy-oxidophosphoryl]oxy-2-hydroxypropyl] 2,3-di(hexadecanoyloxy)propyl phosphate
<b>InChI</b>	InChI=1S/C73H140O17P2.2Na/c1-5-9-13-17-21-25-29-33-37-41-45-49-53-57-70(75)83-63-68(89-72(77)59-55-51-47-43-39-35-31-27-23-19-15-11-7-3)65-87-91(79,80)85-61-67(74)62-86-92(81,82)88-66-69(90-73(78)60-56-52-48-44-40-36-32-28-24-20-16-12-8-4)64-84-71(76)58-54-50-46-42-38-34-30-26-22-18-14-10-6-2;;/h67-69,74H,5-66H2,1-4H3,(H,79,80)(H,81,82);;/q;2*+1/p-2
<b>InChI Key</b>	SGZOKSKKFJWPDO-UHFFFAOYSA-L
<b>Canonical SMILES</b>	CCCCCCCCCCCCCCCC(=O)OCC(COP(=O)([O-])OCC(COP(=O)([O-])OCC(COC(=O)CCCCCCCCCCCCC)OC(=O)CCCCCCCCCCCCC)O)OC(=O)CCCCCCCCCCCCC.[Na+].[Na+]
<b>Isomeric SMILES</b>	CSCCNC1=C2C(=NC(=N1)SCCC(F)(F)N(C=N2)[C@H]3[C@@H]([C@@H]([C@H](O3)COP(=O)(O)OP(=O)(C(P(=O)(O)O)(Cl)Cl)O)O)O
<b>Form</b>	Lyophilized powder
<b>Purity</b>	$\geq 98\%$
<b>Impurities</b>	Free from inappropriate visible particulates, foreign matter, discoloration, or other defects.
<b>Identity</b>	Confirmed by NMR/HPLC/MS.
<b>Stability</b>	In its lyophilized form, the chemical remains stable for 36 months.
<b>Quality Level</b>	Research grade



**Applications**

Cardiolipin can be used for its role in inhibiting apoptosis and modulating oxidative phosphorylation.

**Storage**

Store at -20°C, and keep desiccated.

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