



Phosphatidylethanolamine (*Escherichia coli*)

Cat. No.:	OB0626WX-3584
Appearance:	Solid
Purity:	≥95% (mixture)
Identity:	Confirmed by TLC.
Size:	1 mg; 5 mg; 10 mg; 25 mg

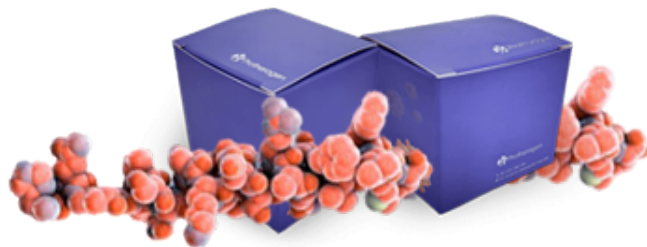
This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Phosphatidylethanolamine (<i>Escherichia coli</i>) is a highly purified bacteria l glycerophospholipid fraction representing the dominant membrane lipid componen t in prokaryotic systems. Derived through the precise enzymatic decarboxylation of phosphatidylserine intermediates, this structural lipid operates as an essent ial lipid chaperone required for the conformational assembly and functional orie ntation of major membrane transport proteins like lactose permease. The molecula r profile of this product contains species characterized by a predominance of C1 8:1, C16:0, and C17:0 fatty acyl chains to replicate native prokaryotic bilayer matrices.
Synonyms	Cephalin PE (<i>E. coli</i>); L-alpha-phosphatidylethanolamine (<i>E. coli</i>); L-alpha-phosphatidylethanolamine, transphosphatidylated (Egg, Chicken); <i>E. c oli</i> PE, L-alpha-phosphatidylethanolamine (<i>E. coli</i>); 94581-14-3
CAS No.	94581-14-3
Compound CID	136212473

Specification

Solubility in Other Solvents	Methanol: 0.1-1 mg/mL
IUPAC Name	2-azaniumylethyl [(2 <i>R</i>)-3-hexadecanoyloxy-2-[(<i>E</i>)-octadec-9-enoyl]ox ypropyl] phosphate
Stability	1 year

**Storage**

Storage at -20°C.

Applications

Phosphatidylethanolamine (*Escherichia coli*) serves as a phospholipid reference material for bacterial membrane lipid research. It supports lipid analysis, membrane organization studies, and characterization of glycerophospholipid composition.