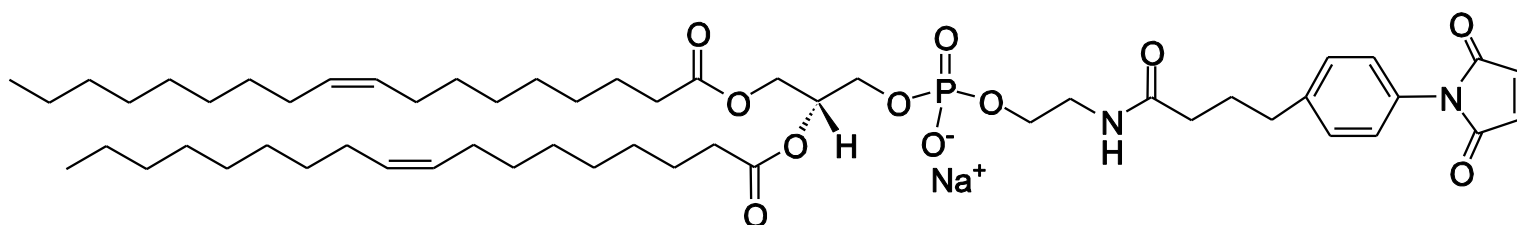


Research Certificate of Analysis

18:1 MPB PE

1,2-dioleoyl-*sn*-glycero-3-phosphoethanolamine-N-[4-(*p*-maleimidophenyl)butyramide] (sodium salt)

Molecular Weight: 1007.258
 Molecular Formula: C₅₅H₈₈N₂O₁₁PNa
 Storage: -20°C
 Shelf Life (Unopened): 6 Months
 Physical Form: Chloroform
 Lot Number: 181MPBPE-52



Product Specifications

Test	Limits	Results
Mass Spec	Consistent with Structure	Consistent with Structure
Proton NMR	Consistent with Structure	Consistent with Structure
TLC Analysis	>99%	>99%
Ninhydrin	Negative	Negative
Iodine	One Spot	One Spot
Phosphorus	Positive	Positive
Char	Positive	Positive

Signed: Electronically Signed By QC
Release Date: June 9, 2014