

Supplementary Material

Phosphatidylcholine with *cis*-9,*trans*-11 and *trans*-10,*cis*-12 conjugated linoleic acid isomers: synthesis and cytotoxic studies

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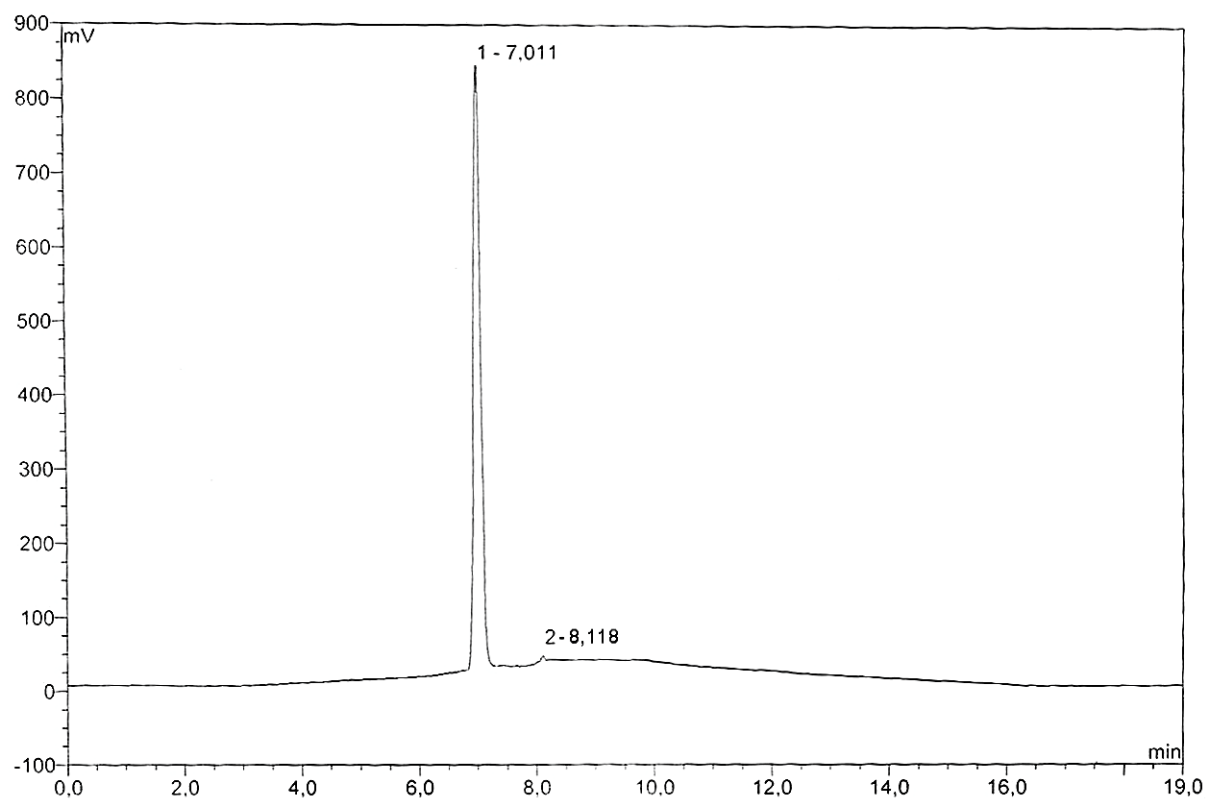
HPLC chromatograms and ¹H/¹³C NMR of:

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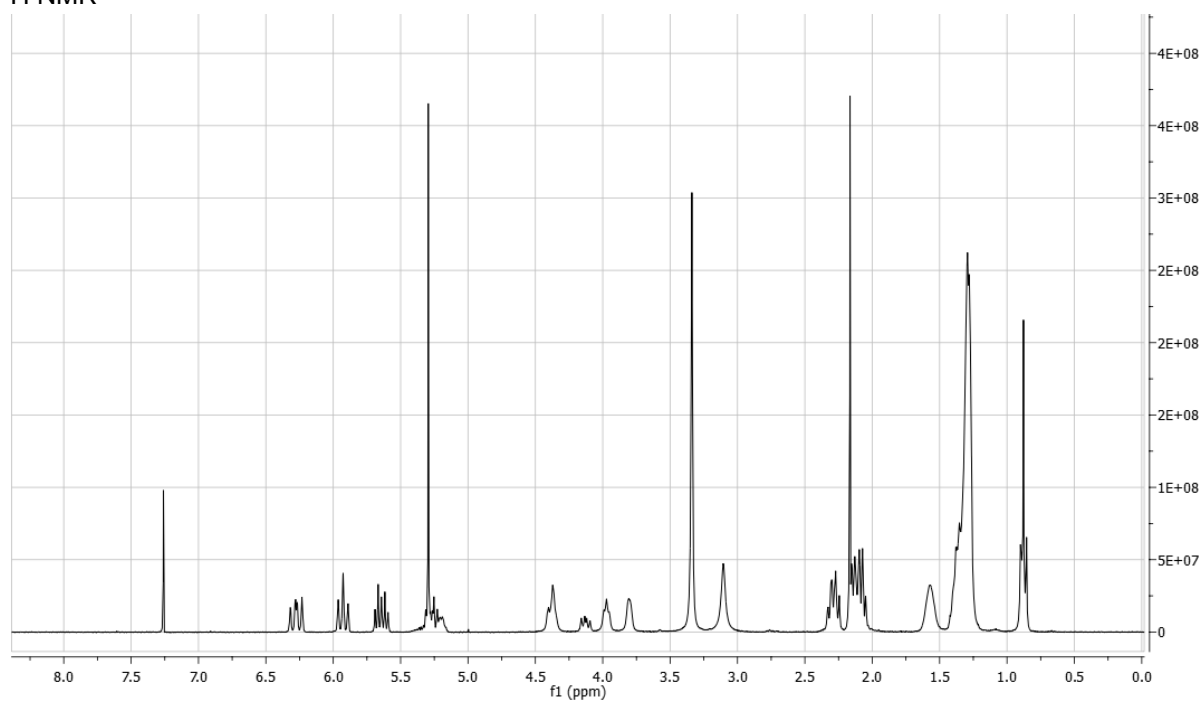
1,2-Di-(9Z,11E-octadecadienoyl)-sn-glycero-3-phosphocholine 2d

Colourless greasy solid (669 mg, 75%), with 99% purity (according to HPLC, R_T 7.01 min), traces of 9Z,11E-octadecadienoyl LPC (R_T 8.12 min).

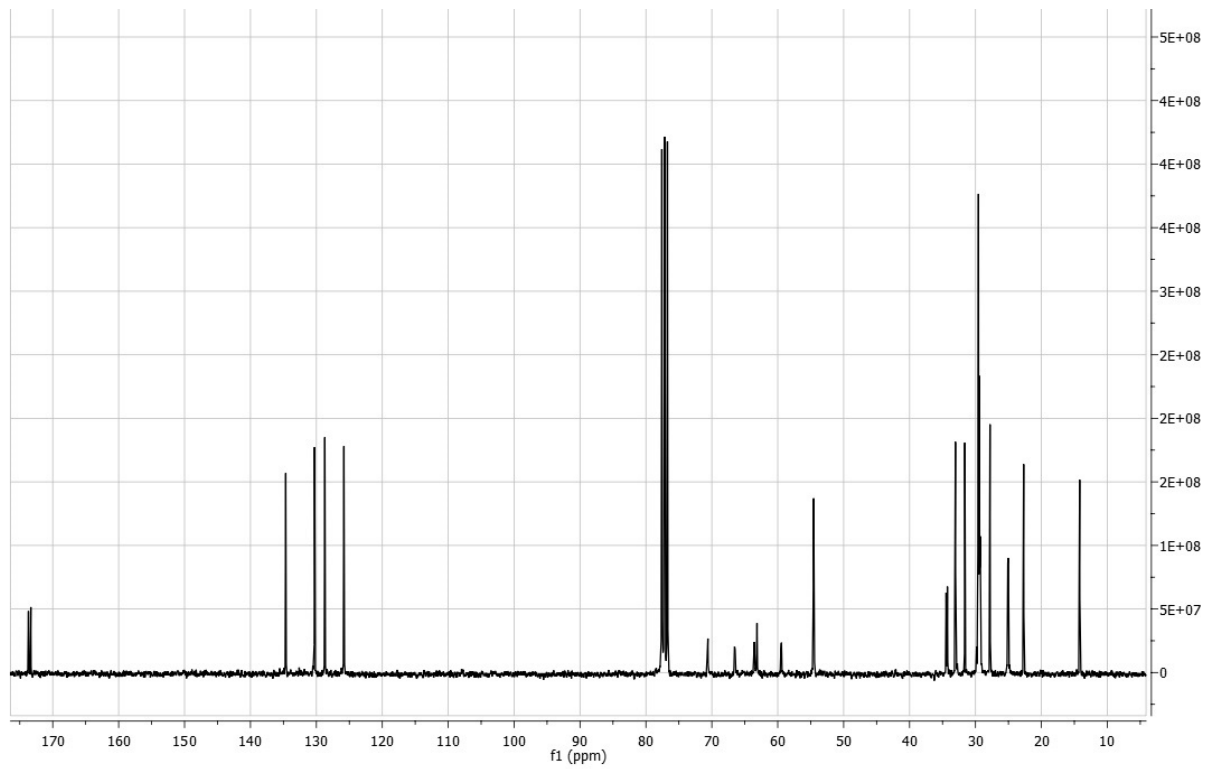
HPLC chromatogram



^1H NMR



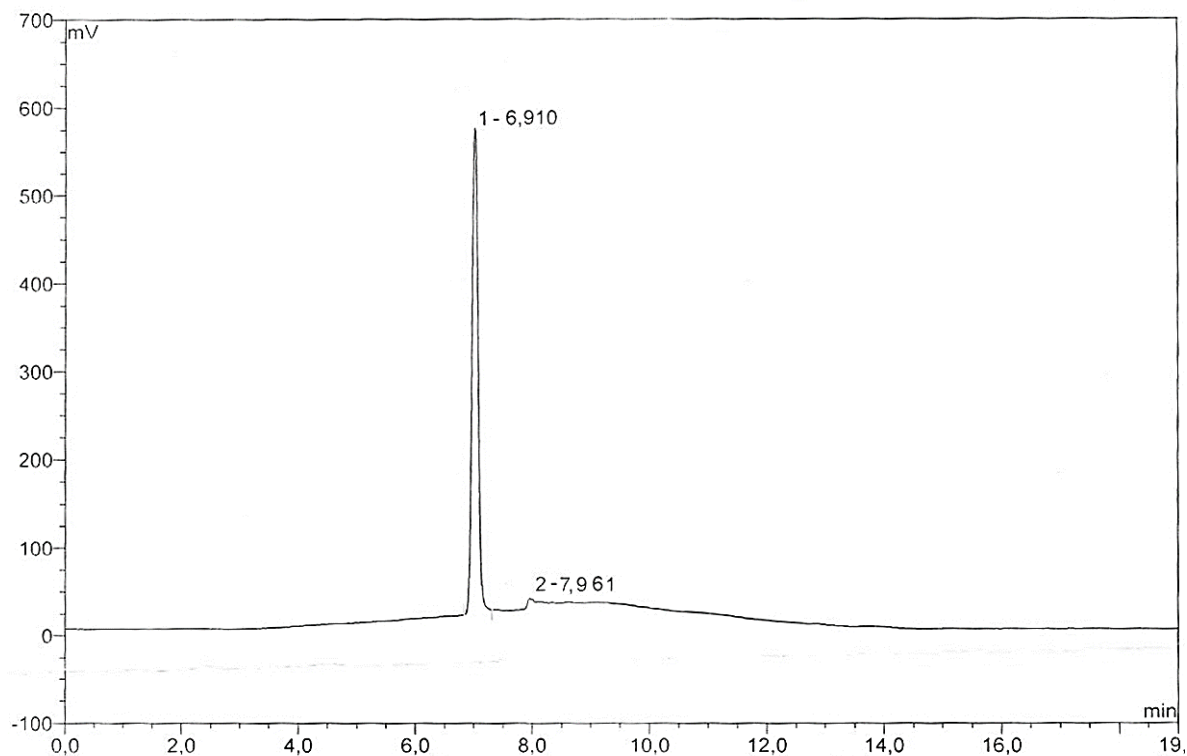
^{13}C NMR



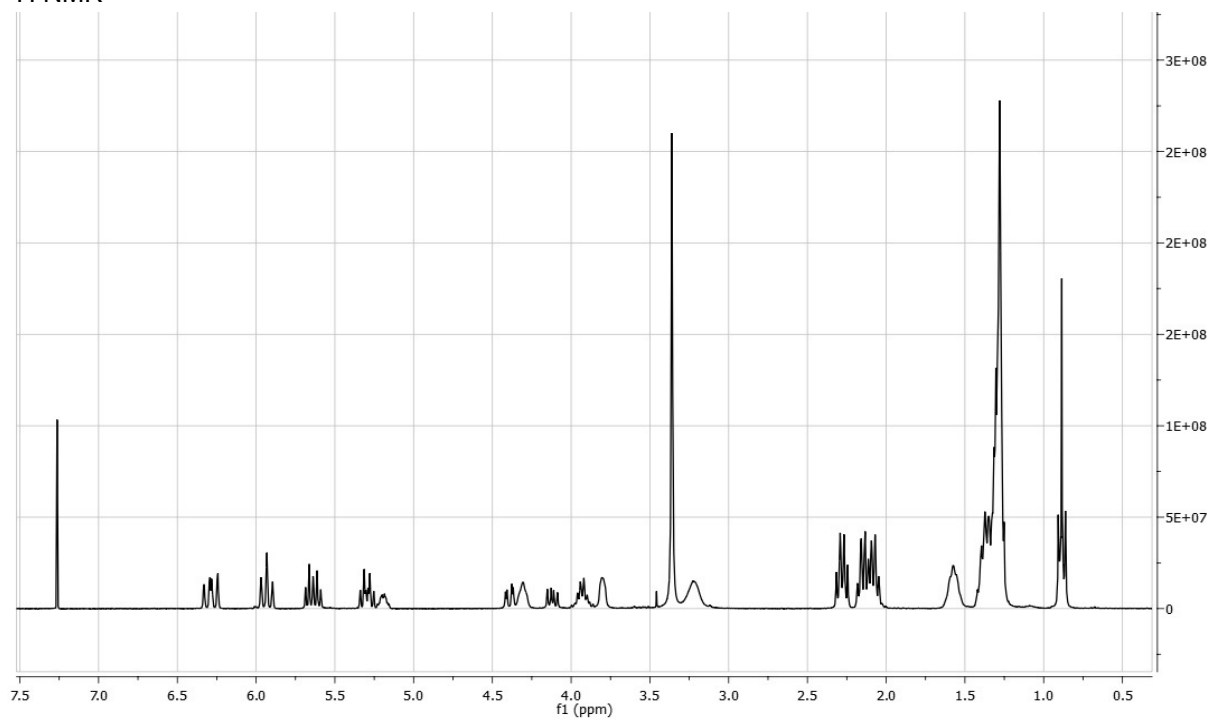
1,2-Di-(10E,12Z-octadecadienoyl)-sn-glycero-3-phosphocholine 2e

Colourless greasy solid (669 mg, 75%) with 98% purity (according to HPLC, R_T 7.03 min), traces of 10E,12Z-octadecadienoyl LPC (R_T 7.96 min).

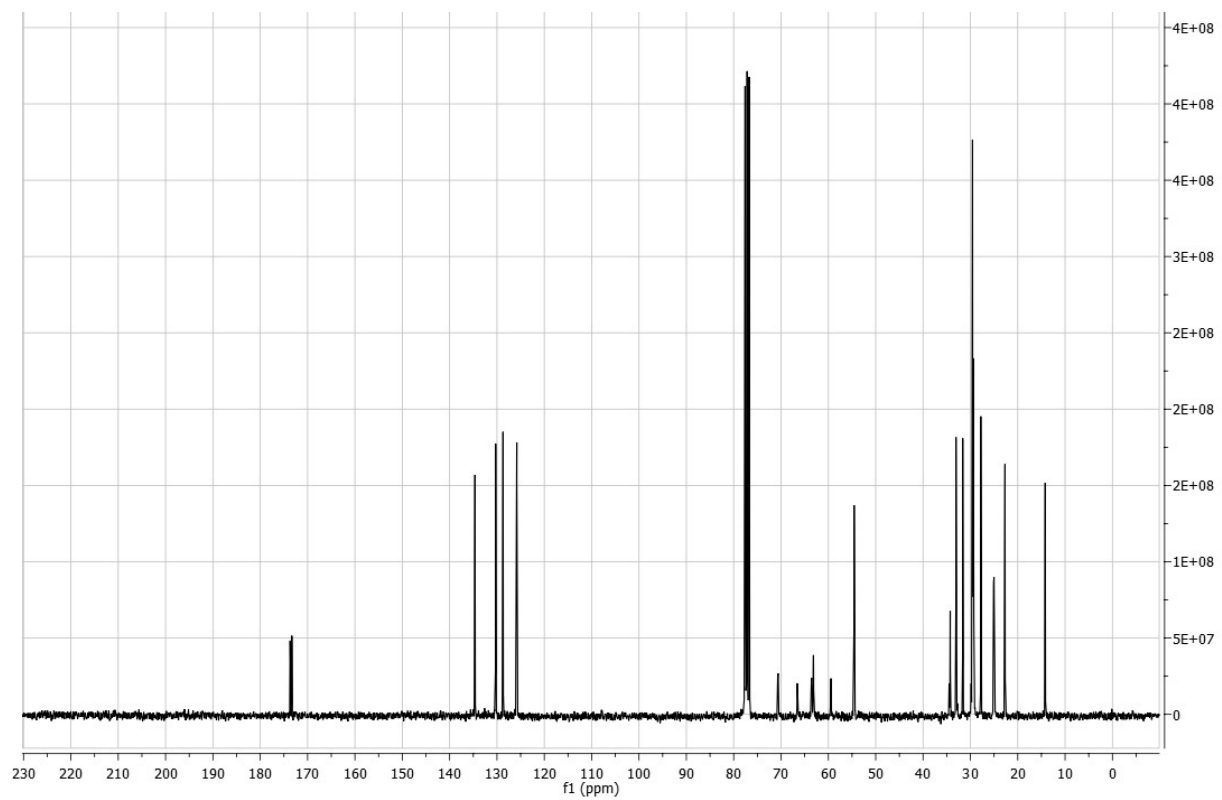
HPLC chromatogram



^1H NMR



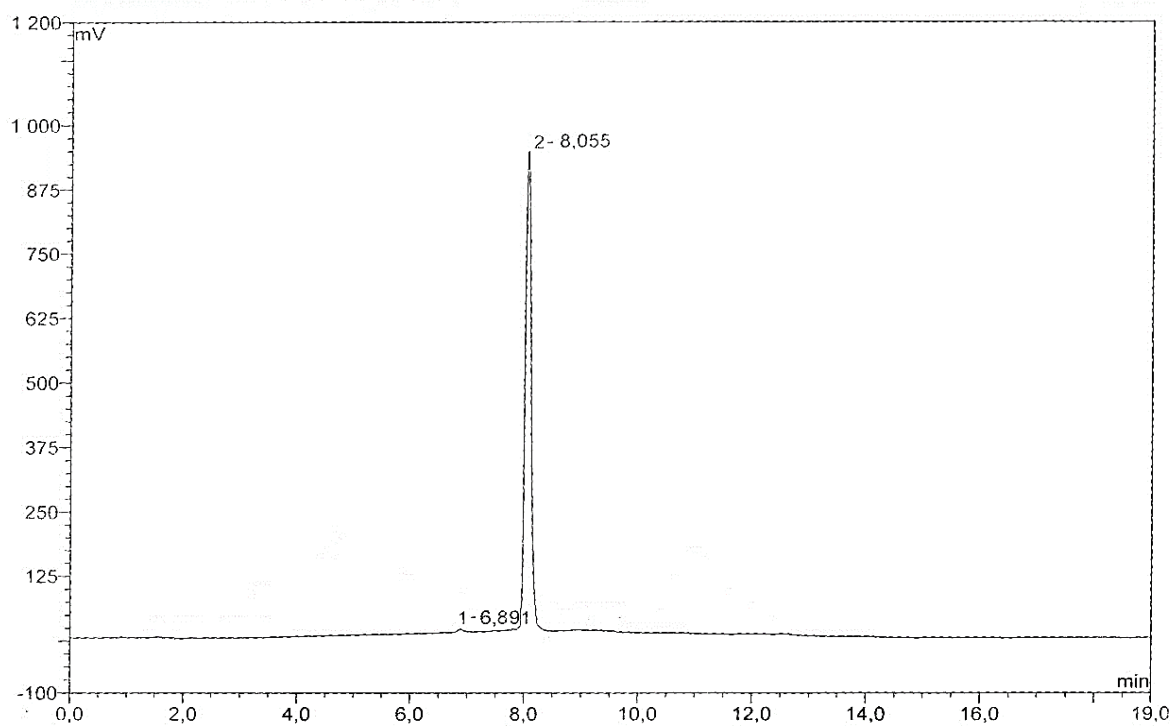
^{13}C NMR



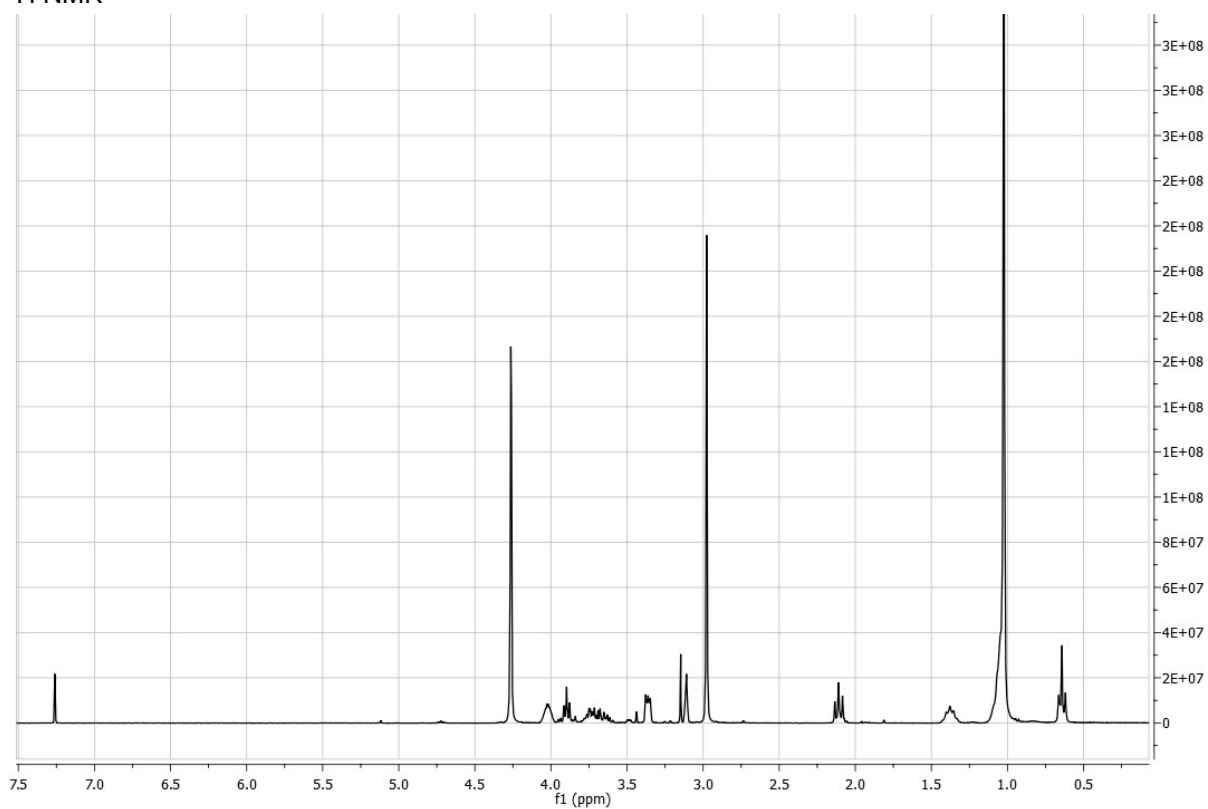
1-Octadecanoyl-2-hydroxy-*sn*-glycero-3-phosphocholine **3a**

White solid (329 mg, 99%) with 99% purity (according to HPLC, R_T 8.06 min), traces of 1,2-dioctadecanoyl-*sn*-glycero-3-phosphocholine (R_T 6.89 min).

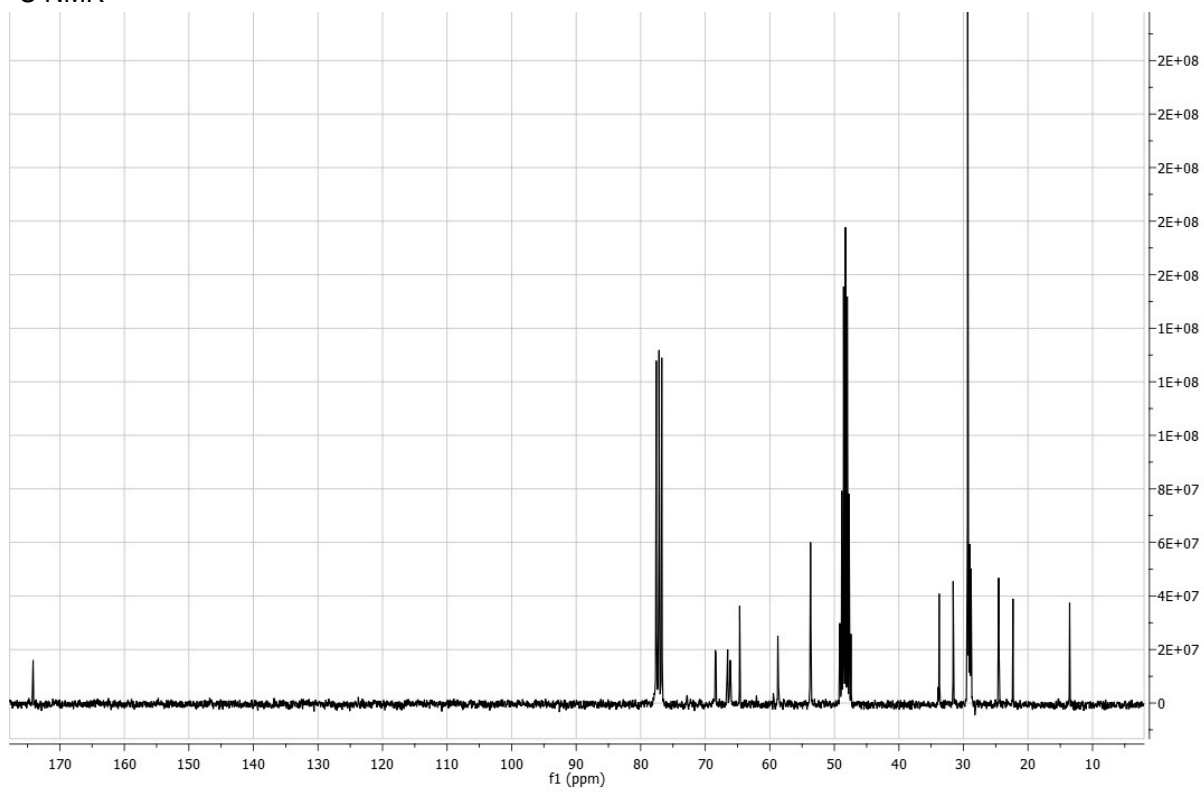
HPLC chromatogram



^1H NMR



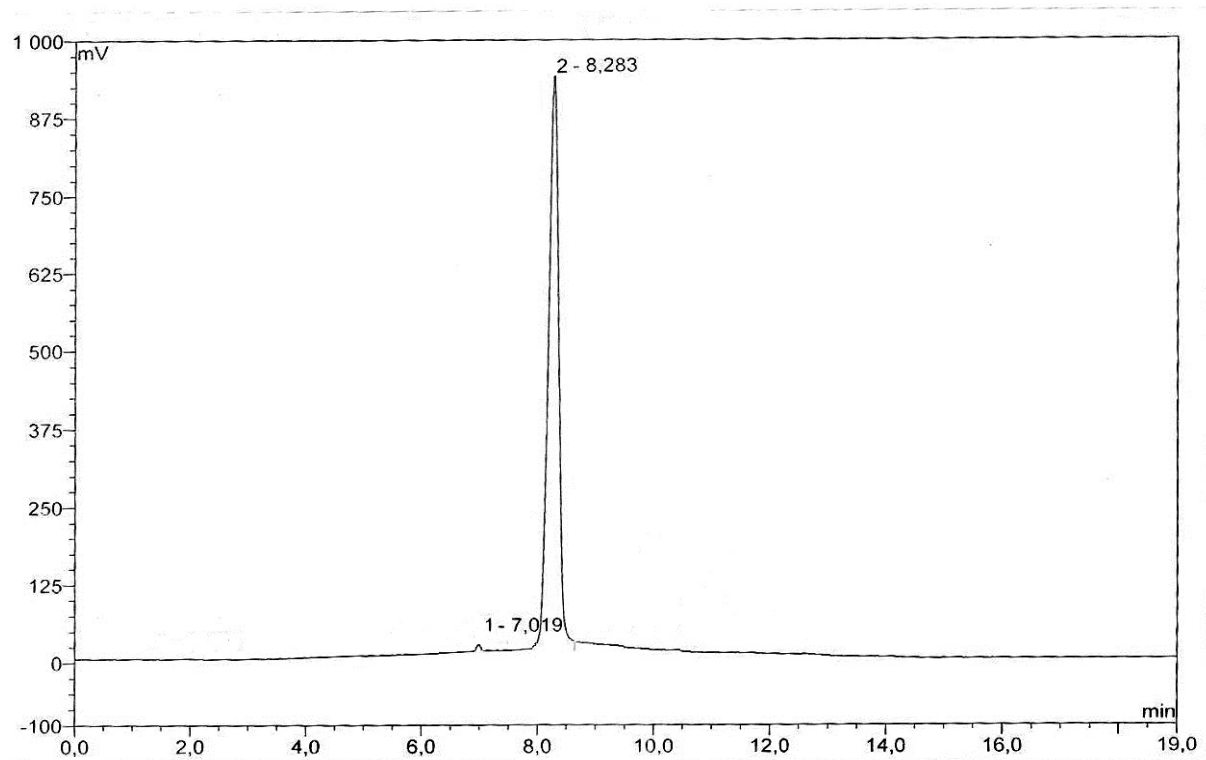
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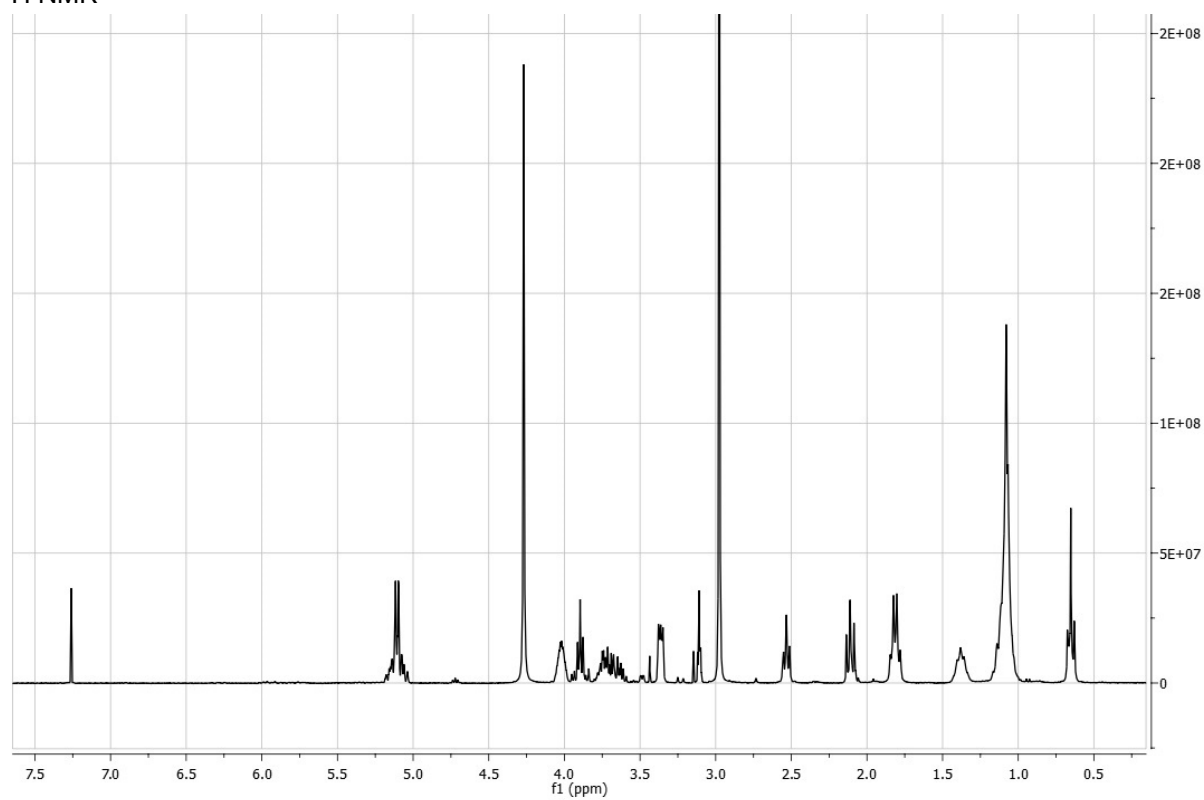
1-(9Z,12Z)-Octadecadienoyl-2-hydroxy-*sn*-glycero-3-phosphocholine **3b**

Colourless greasy solid (313 mg, 95%) with 99% purity (according to HPLC, R_T 8.28 min), traces of 1,2-di-(9Z,12Z-octadecadienoyl)-*sn*-glycero-3-phosphocholine (R_T 7.02 min).

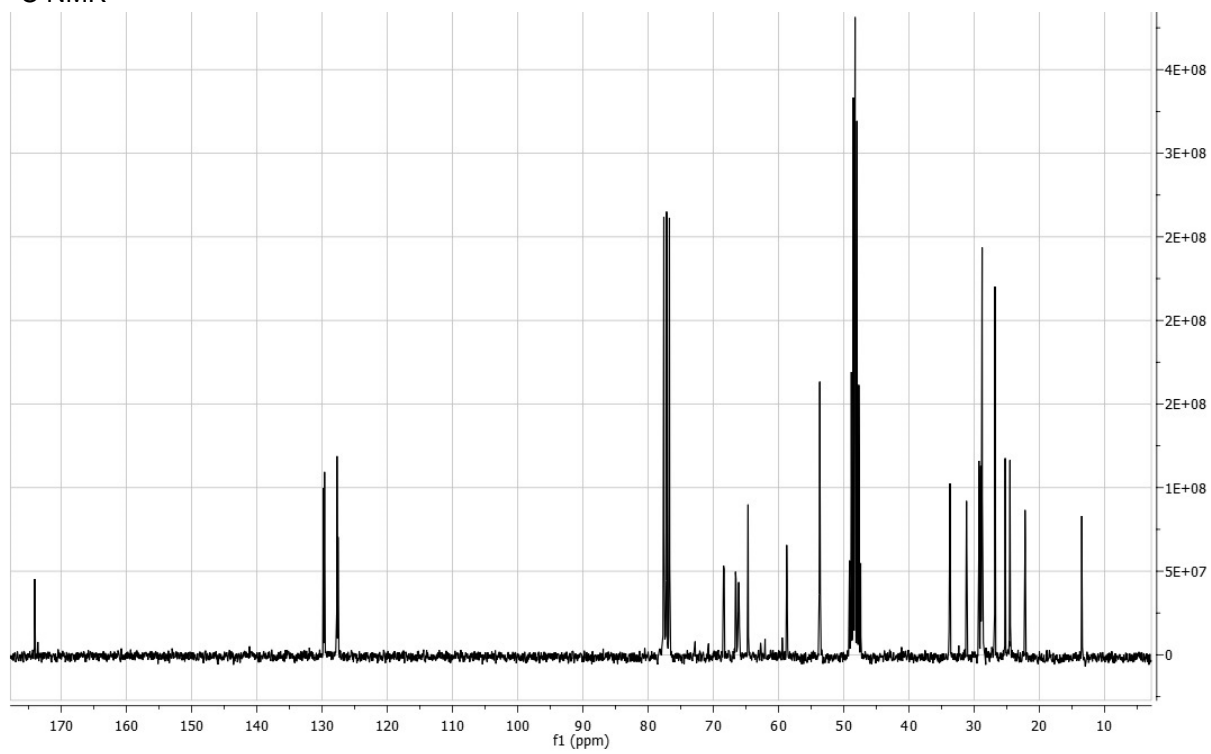
HPLC chromatogram



^1H NMR



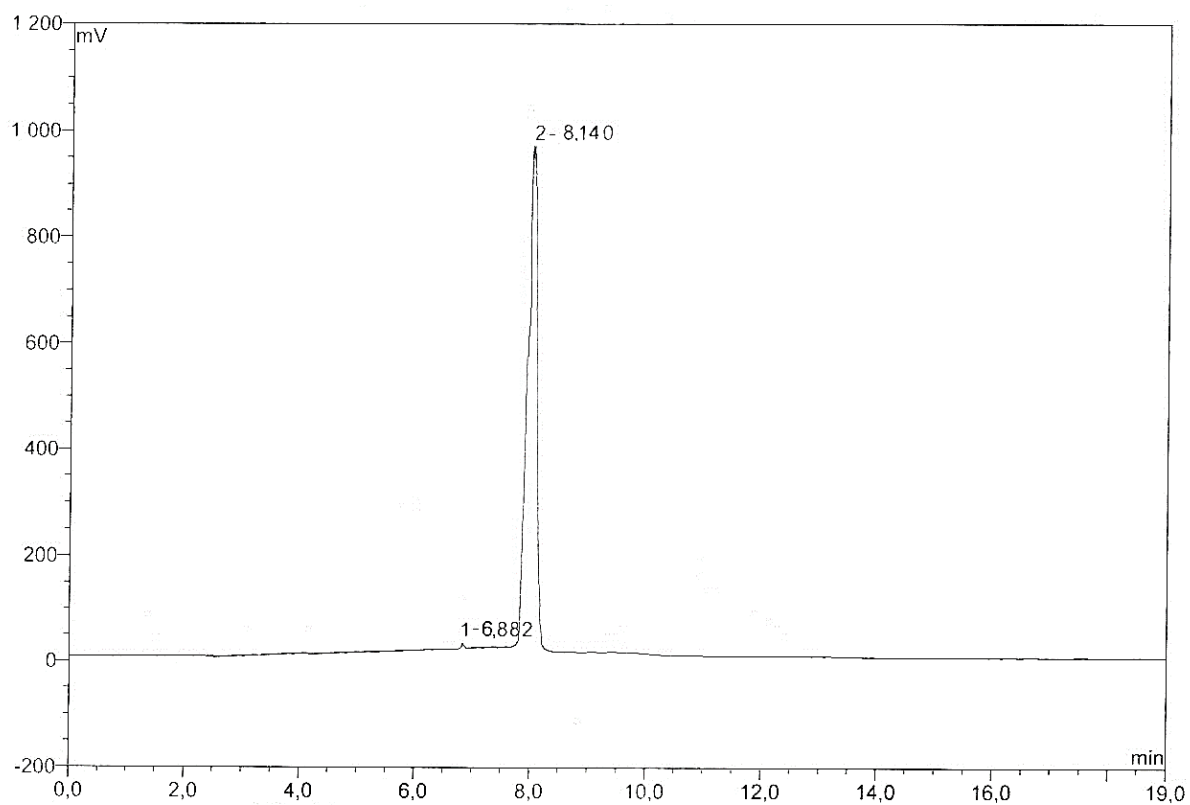
^{13}C NMR



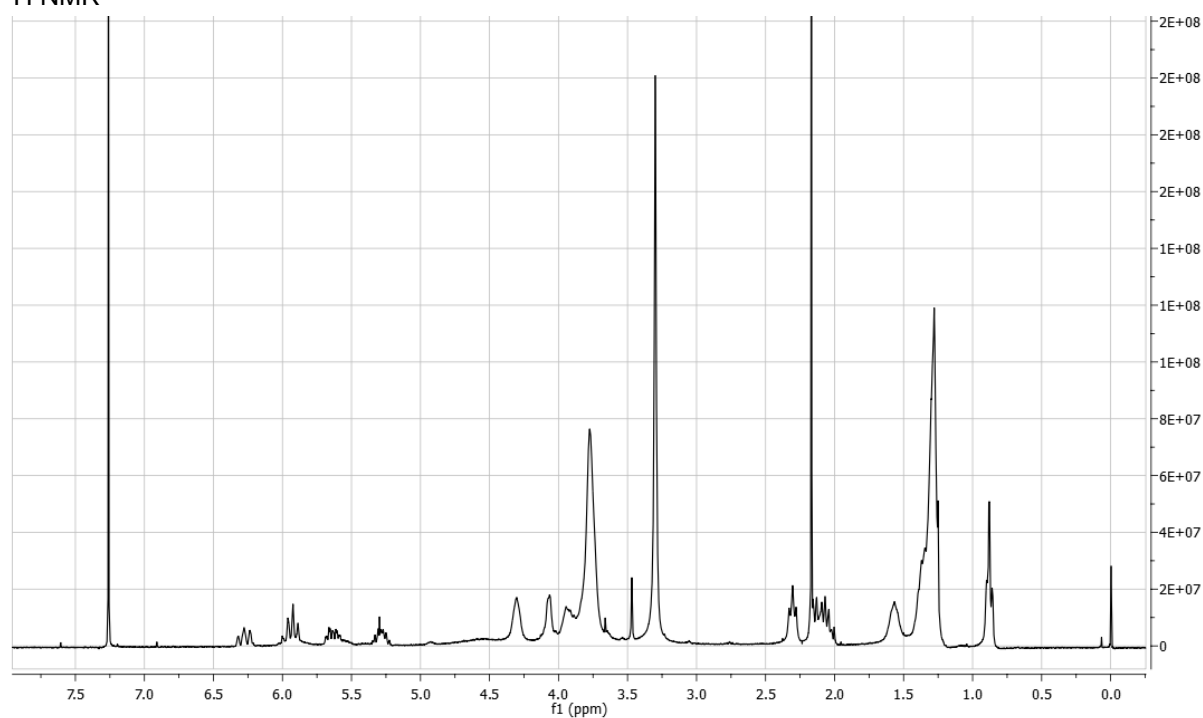
1-(Conjugated)linoleoyl-2-hydroxy-sn-glycero-3-phosphocholine **3c**

Colourless greasy solid (294 mg, 89%) with 99% purity (according to HPLC, R_T 8.14 min), traces of 1,2-di-(conjugated)linoleoyl-sn-glycero-3-phosphocholine (R_T 6.88 min).

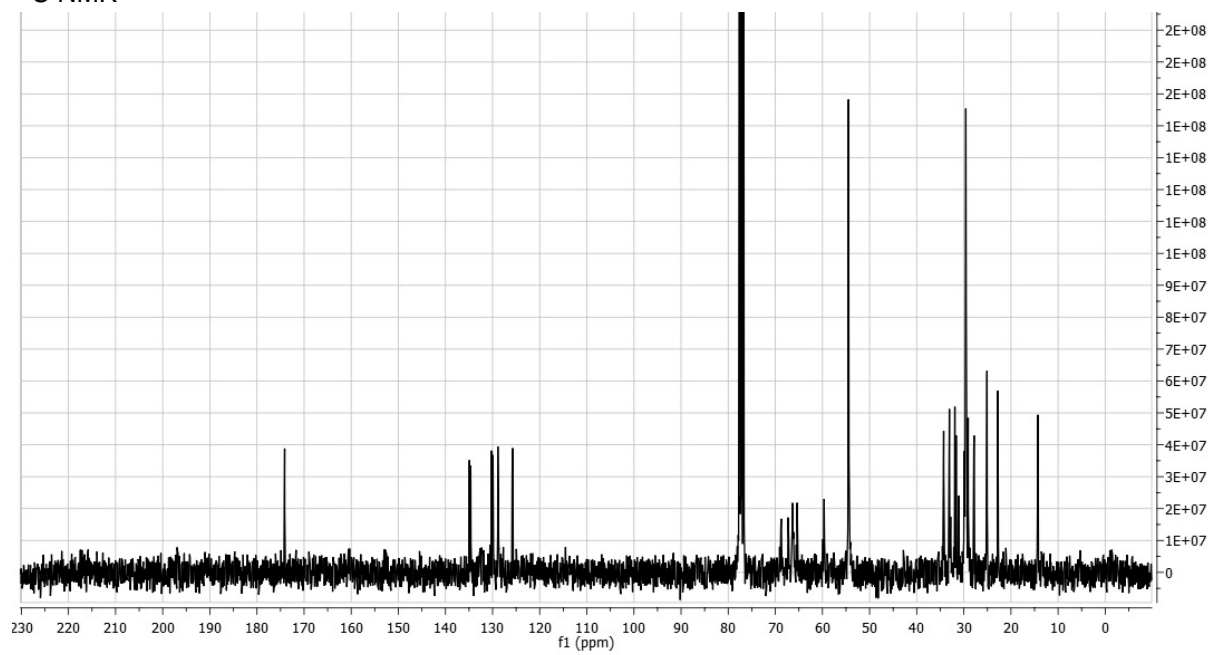
HPLC chromatogram



^1H NMR



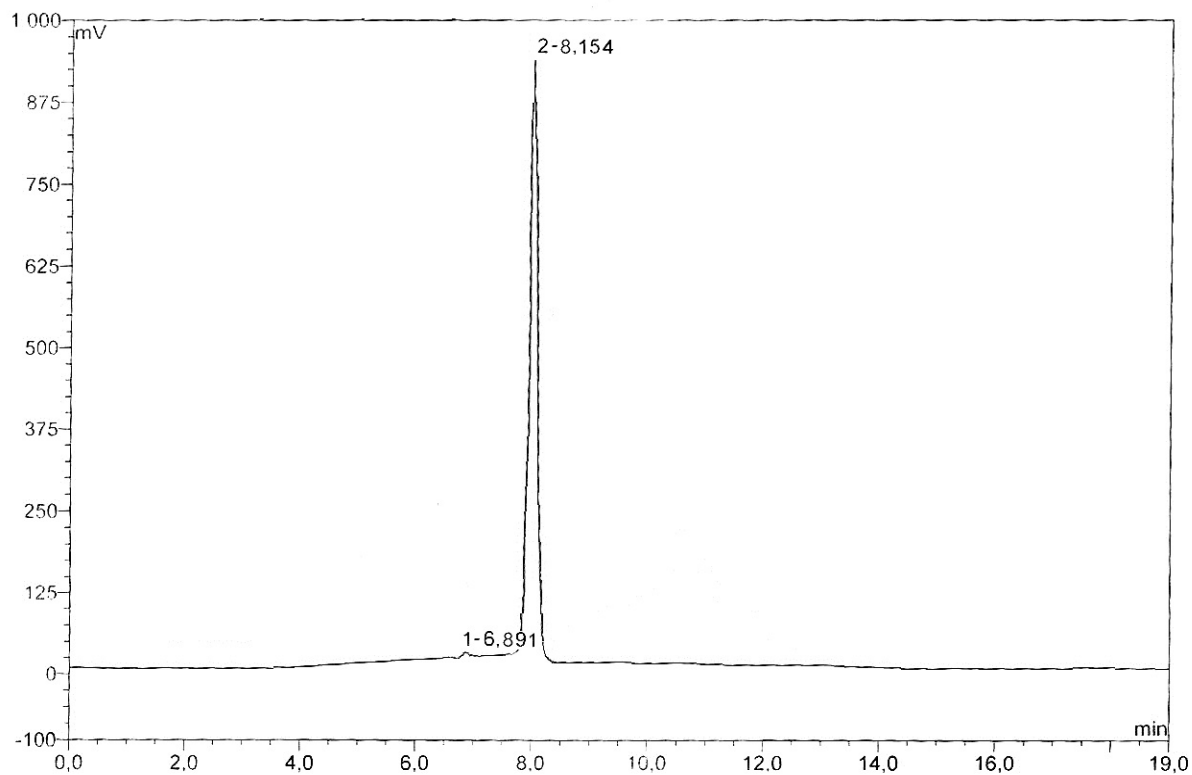
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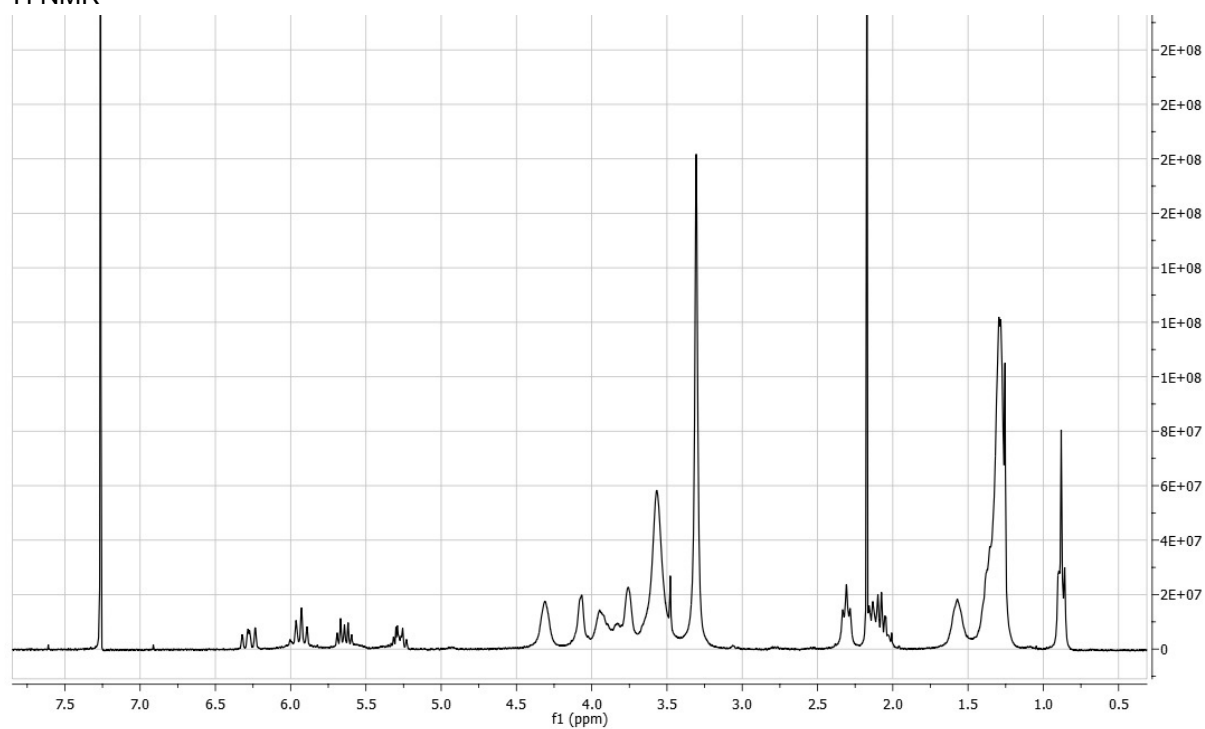
1-(9Z,11E)-Octadecadienoyl-2-hydroxy-*sn*-glycero-3-phosphocholine 3d

Colourless greasy solid (310 mg, 94%) with 99% purity (according to HPLC, R_T 8.15 min), traces of 1,2-di-(9Z,11Z-octadecadienoyl)-*sn*-glycero-3-phosphocholine (R_T 6.89 min).

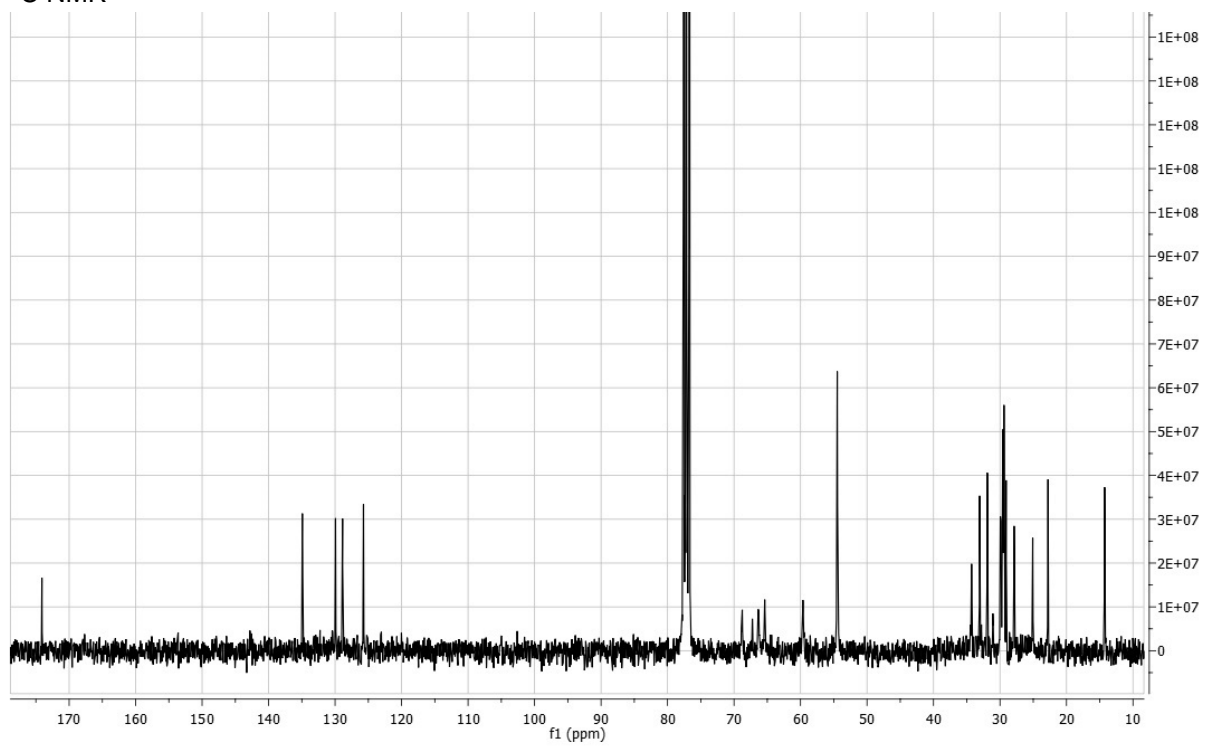
HPLC chromatogram



^1H NMR



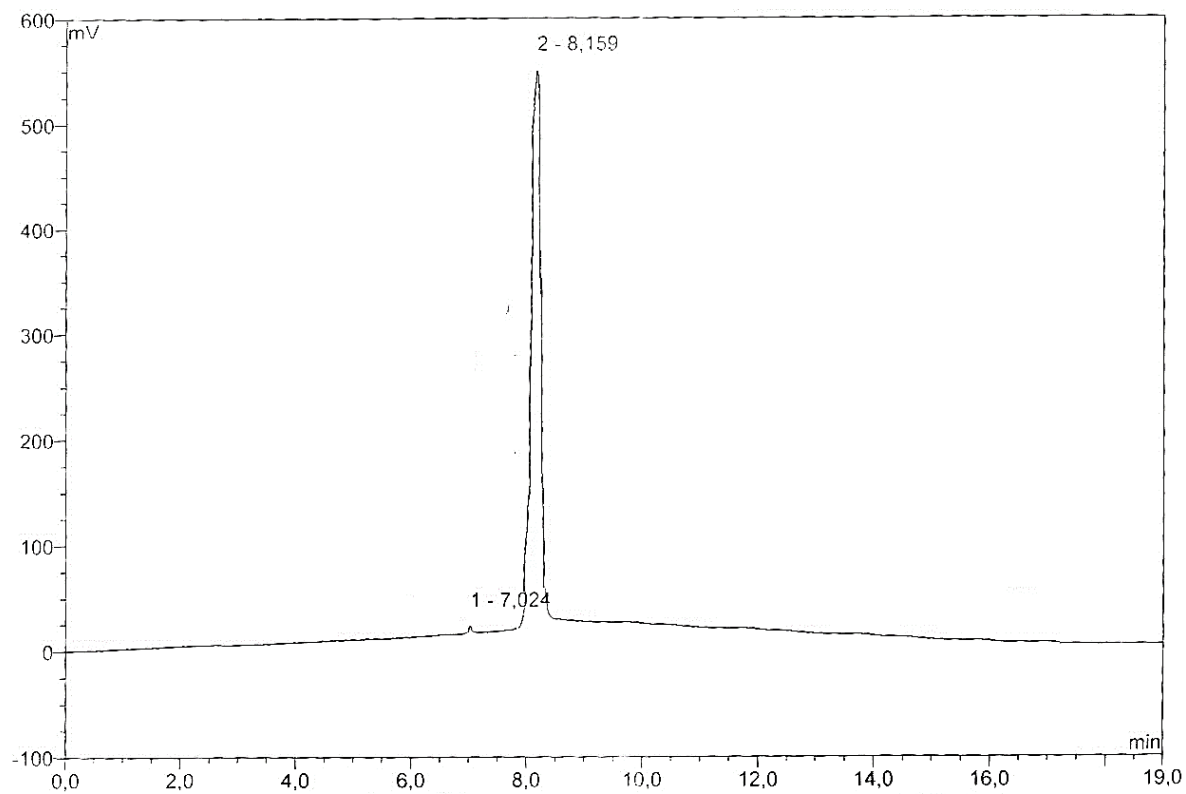
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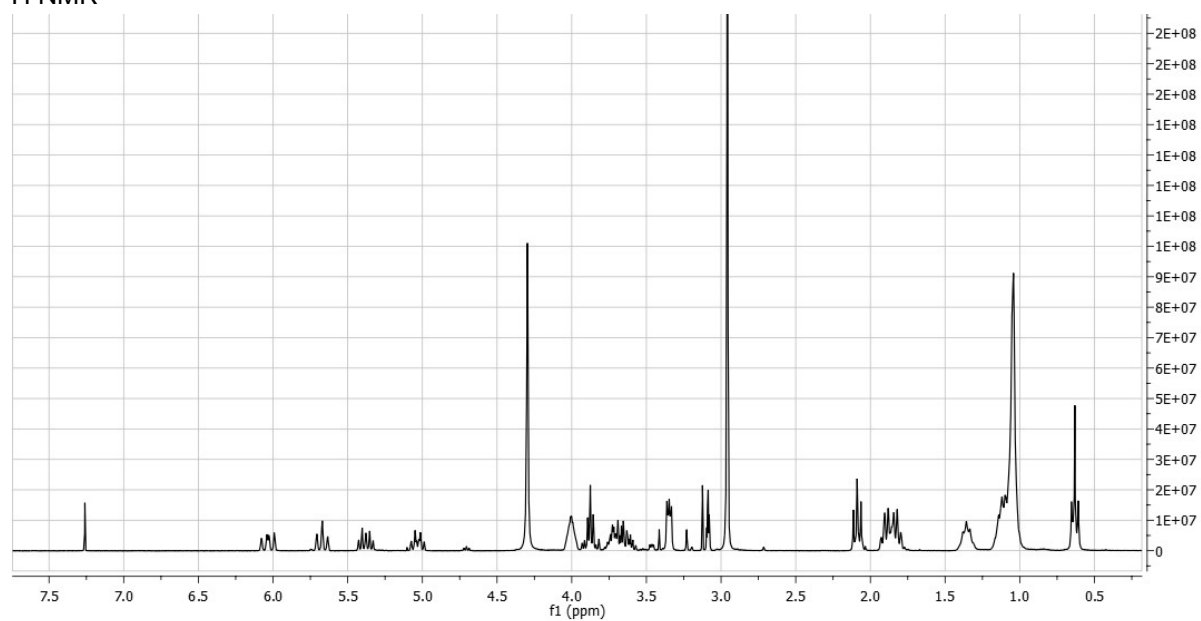
1-(10*E*, 12*Z*)-Octadecadienoyl-2-hydroxy-*sn*-glycero-3-phosphocholine 3e

Colourless greasy solid (307 mg, 93%) with 99% purity (according to HPLC, R_T 8.16 min), traces of 1,2-di-(10*E*,12*Z*-octadecadienoyl)-*sn*-glycero-3-phosphocholine (R_T 7.02 min).

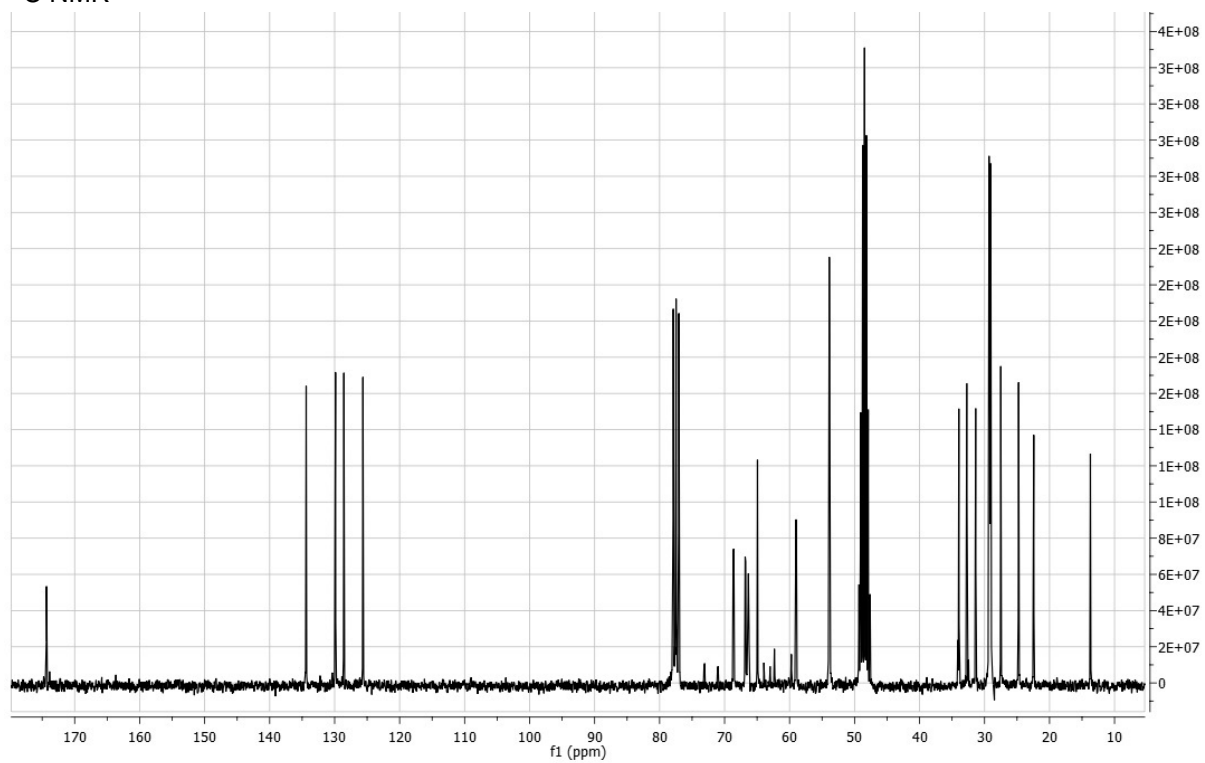
HPLC chromatogram



^1H NMR



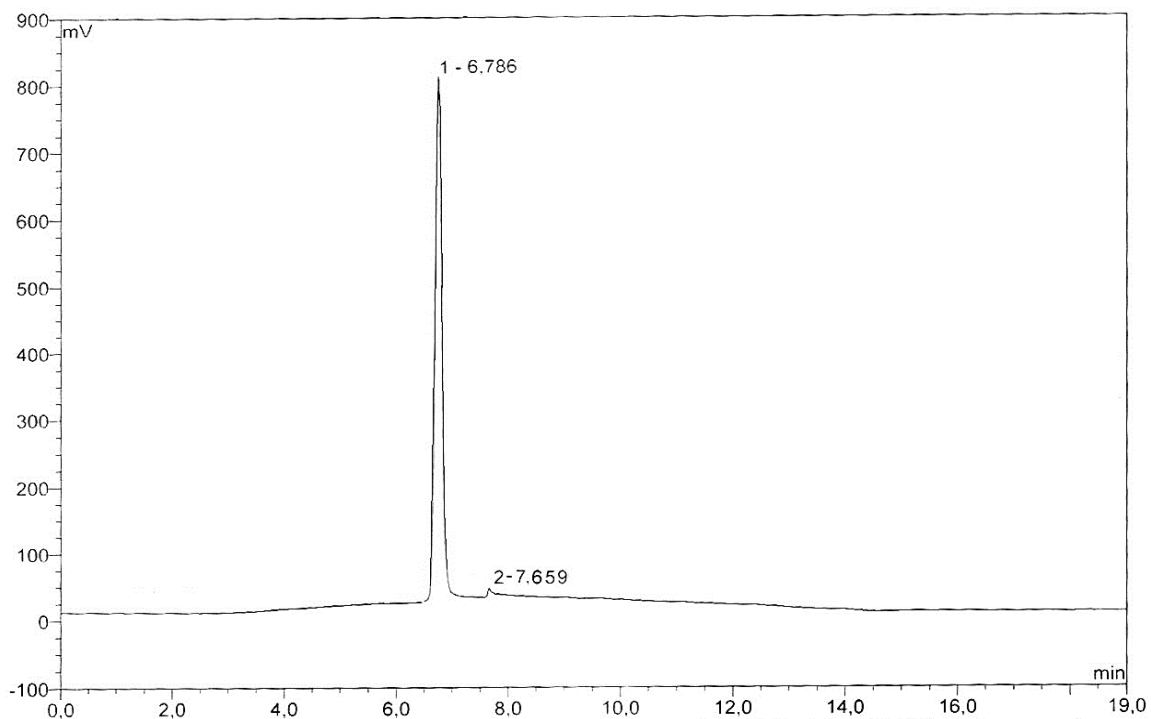
^{13}C NMR



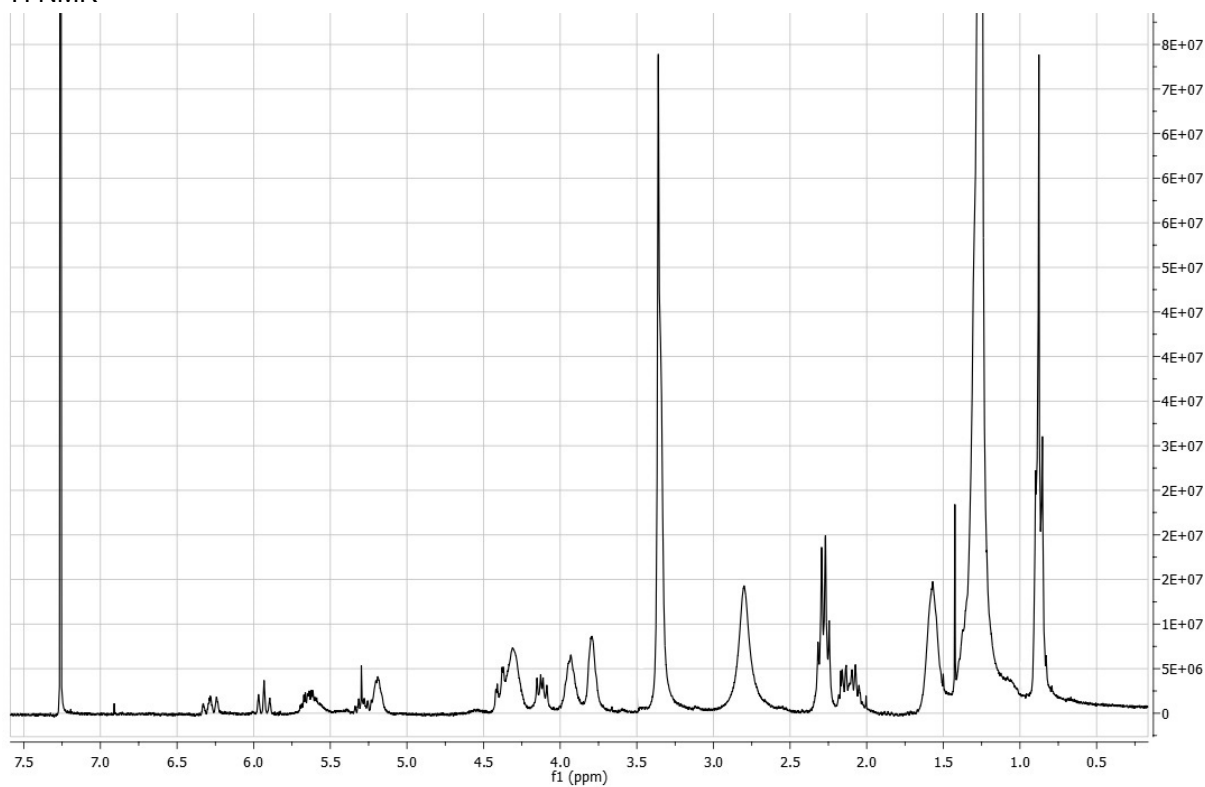
1- Octadecanoyl -2-(conjugated)linoleoyl-sn-glycero-3-phosphocholine 4c

Colourless greasy solid (119 mg, 79%) with 98% purity (according to HPLC, R_T 6.79 min), traces of 1-octadecanoyl LPC (R_T 7.66 min).

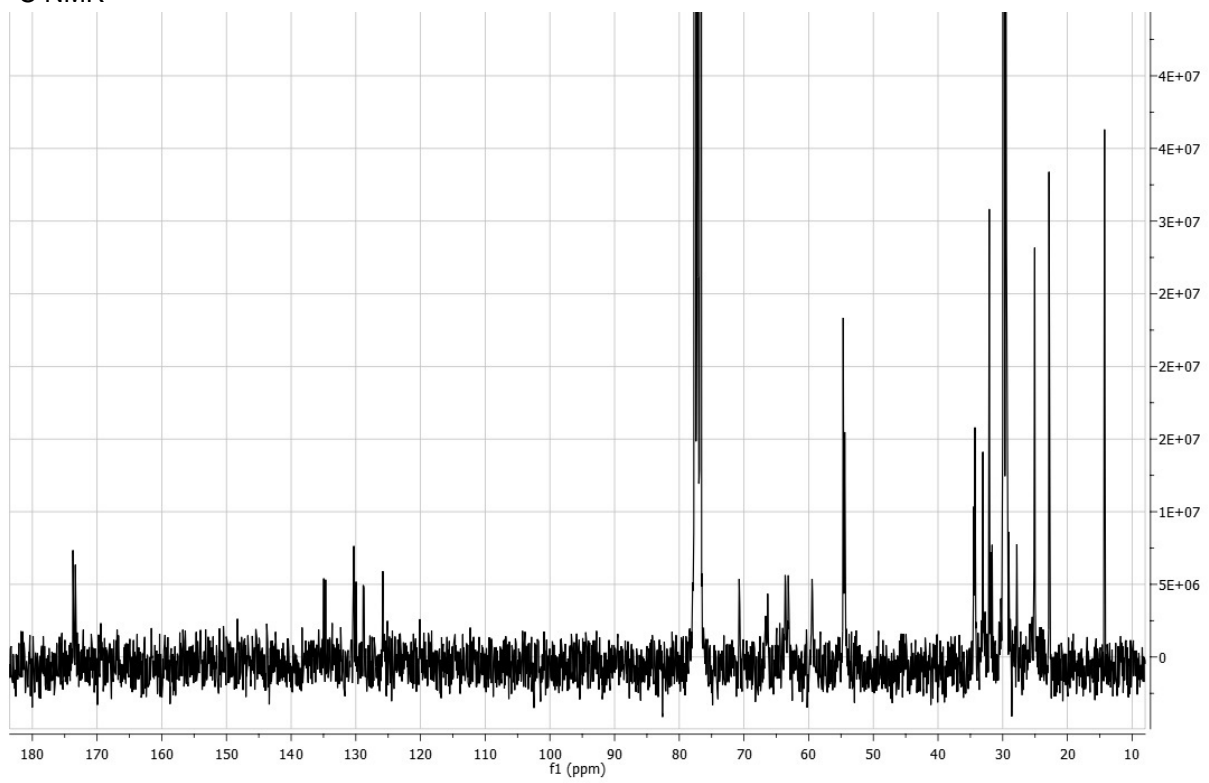
HPLC chromatogram



^1H NMR



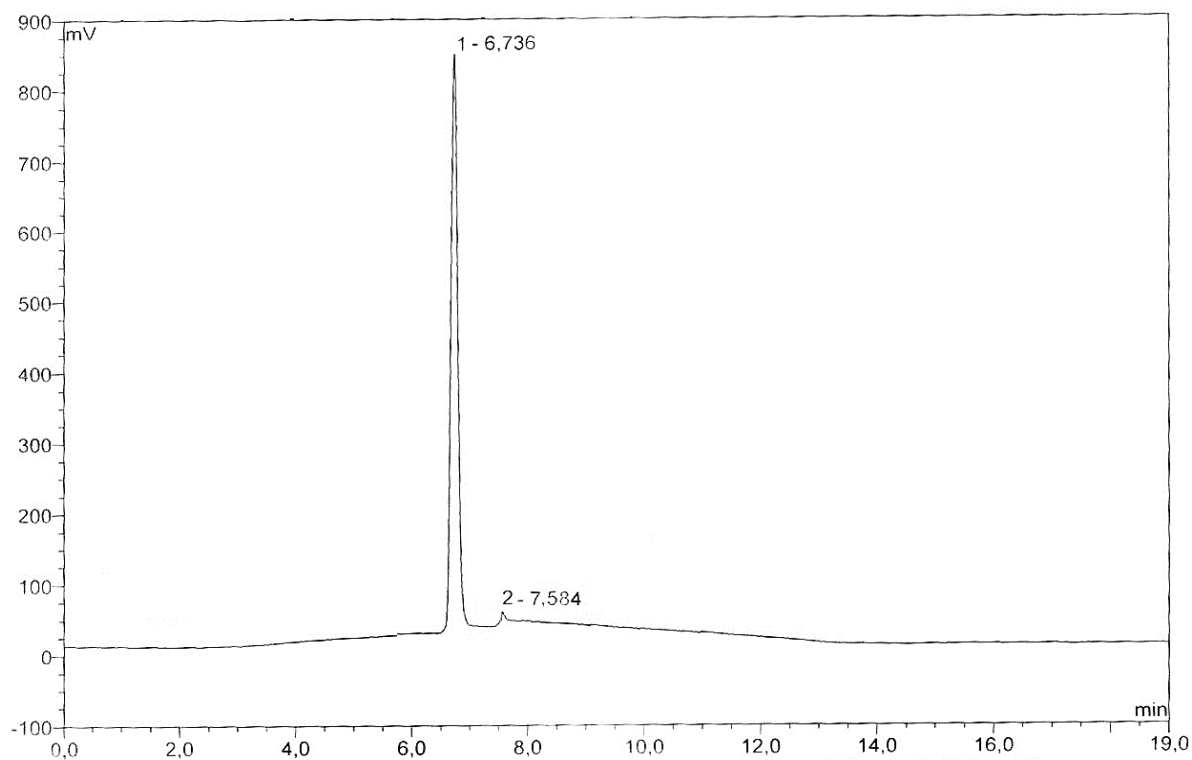
^{13}C NMR



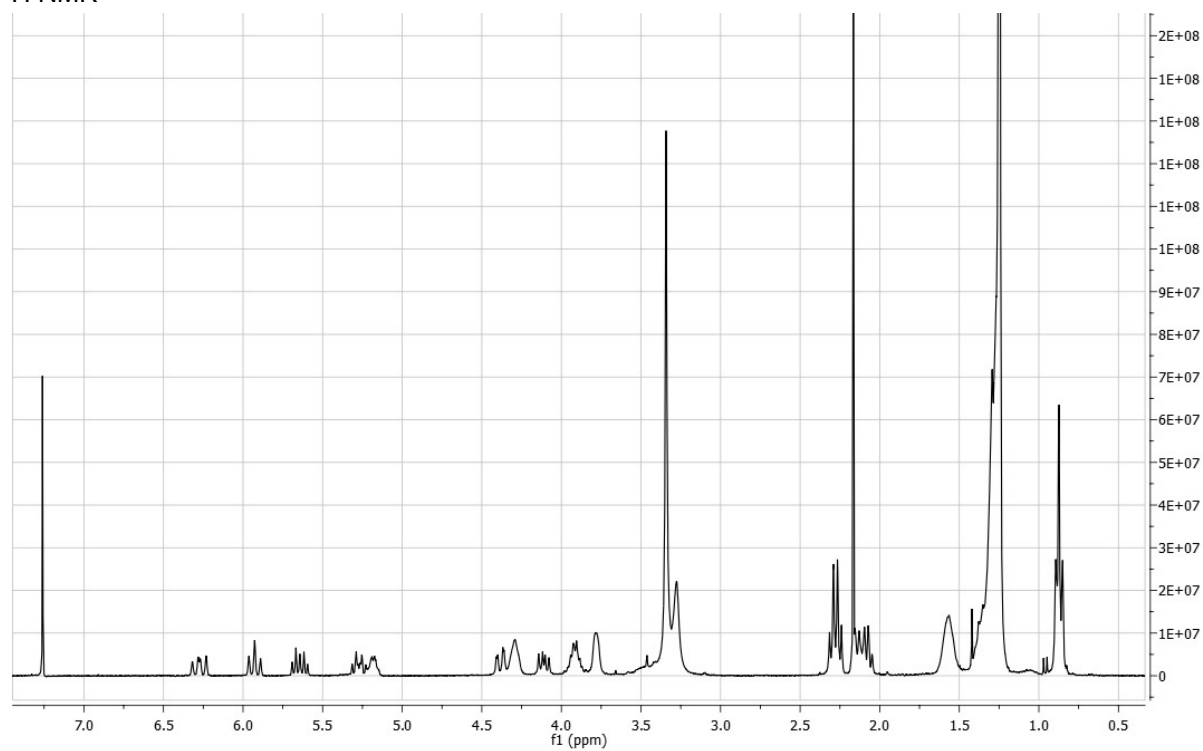
1-Octadecanoyl-2-(9Z,11E)-octadecadienoyl -sn-glycero-3-phosphocholine 4d

Colourless greasy solid (113 mg, 75%) with 98% purity (according to HPLC, R_T 6.74 min), traces of 1-octadecanoyl LPC (R_T 7.58).

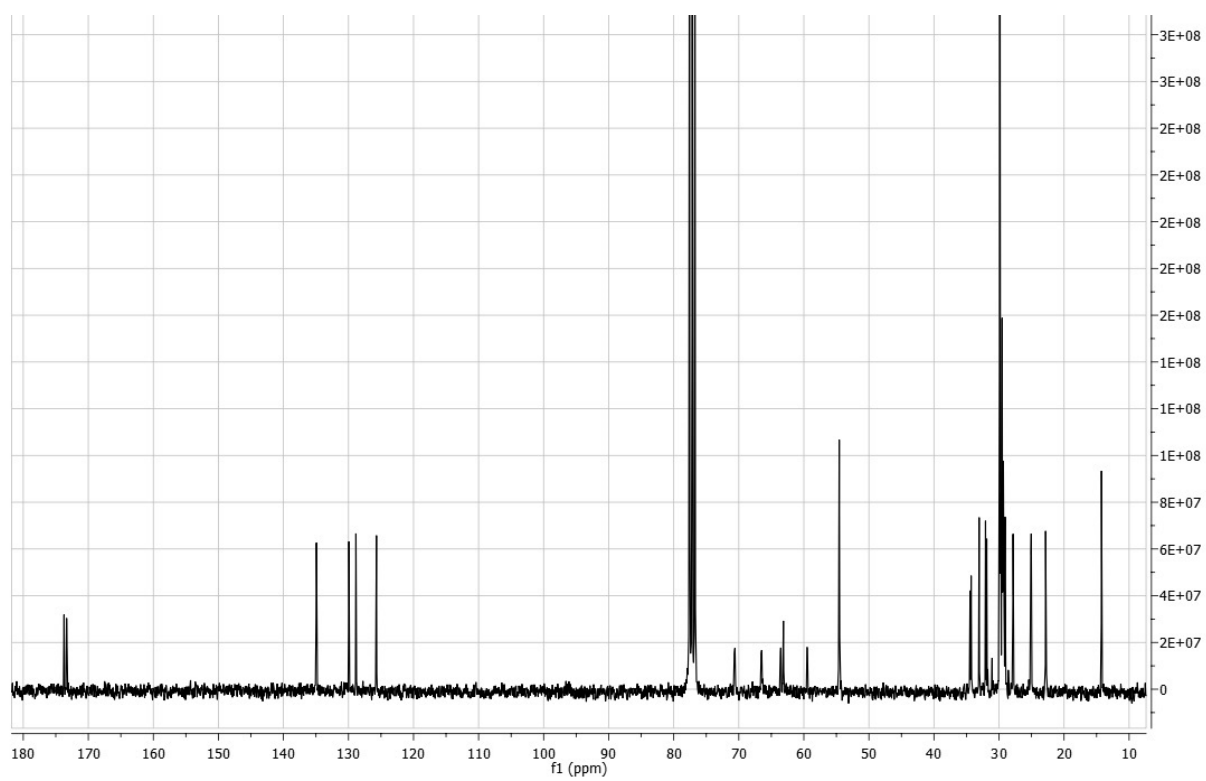
HPLC chromatogram



^1H NMR



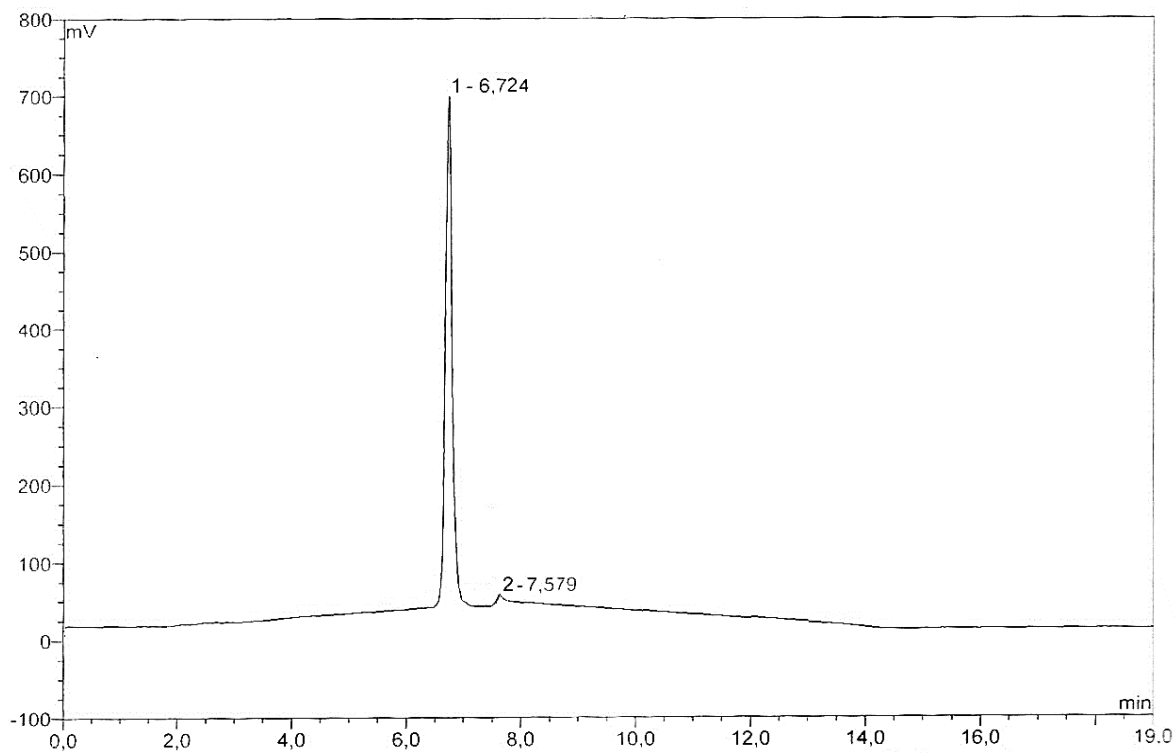
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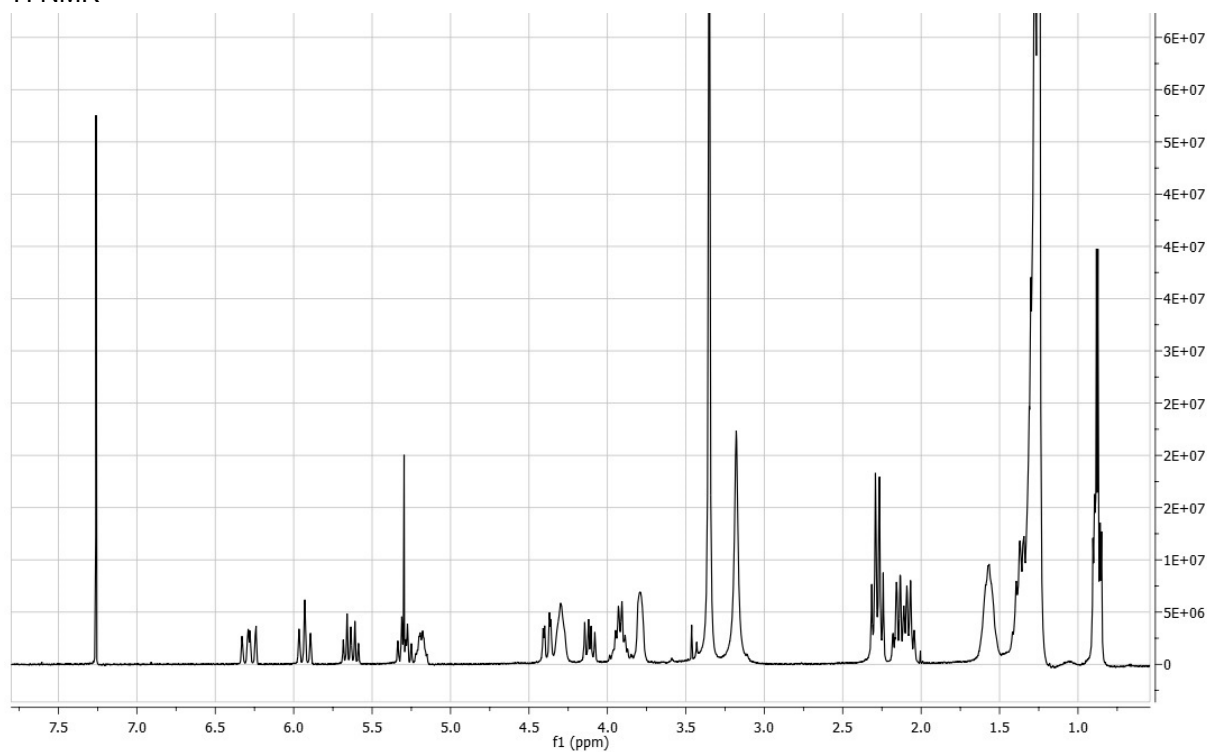
1-Octadecanoyl-2-(10E,12Z)-octadecadienoyl-sn-glycero-3-phosphocholine 4e

Colourless greasy solid (110 mg, 73%) with 99% purity (according to HPLC, R_T 6.72 min), traces of 1-octadecanoyl LPC (R_T 7.58 min).

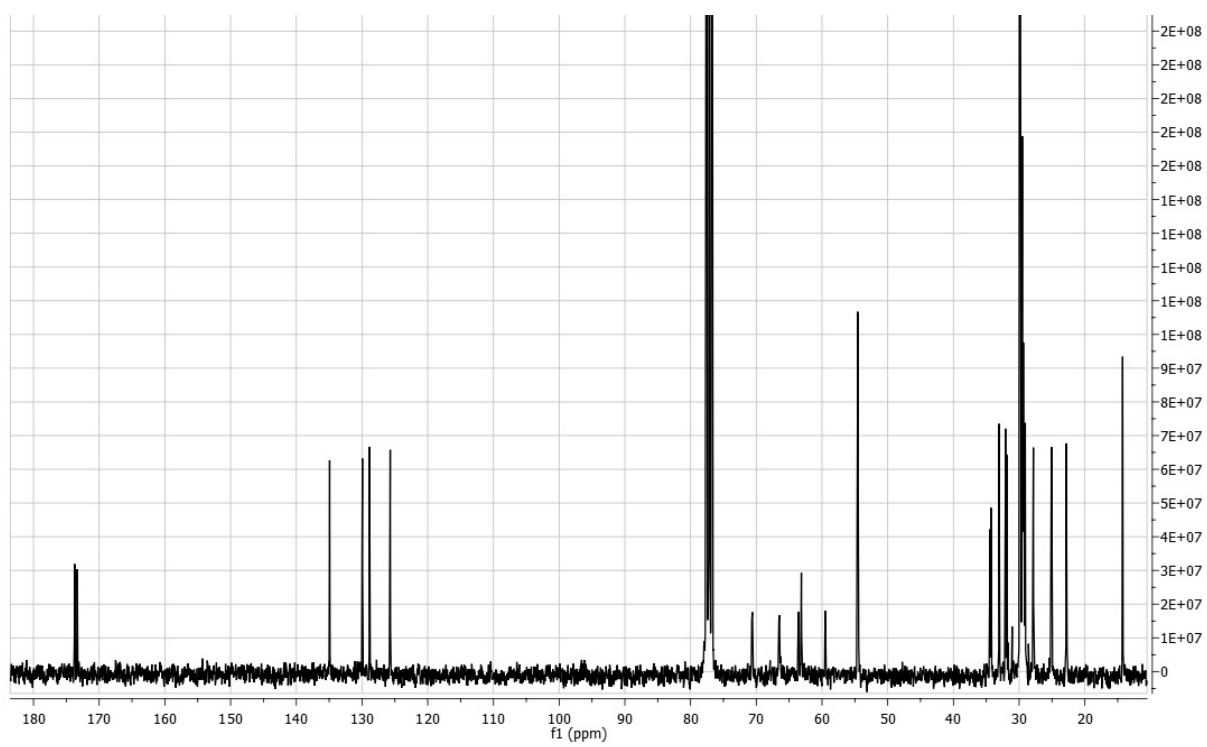
HPLC chromatogram



^1H NMR



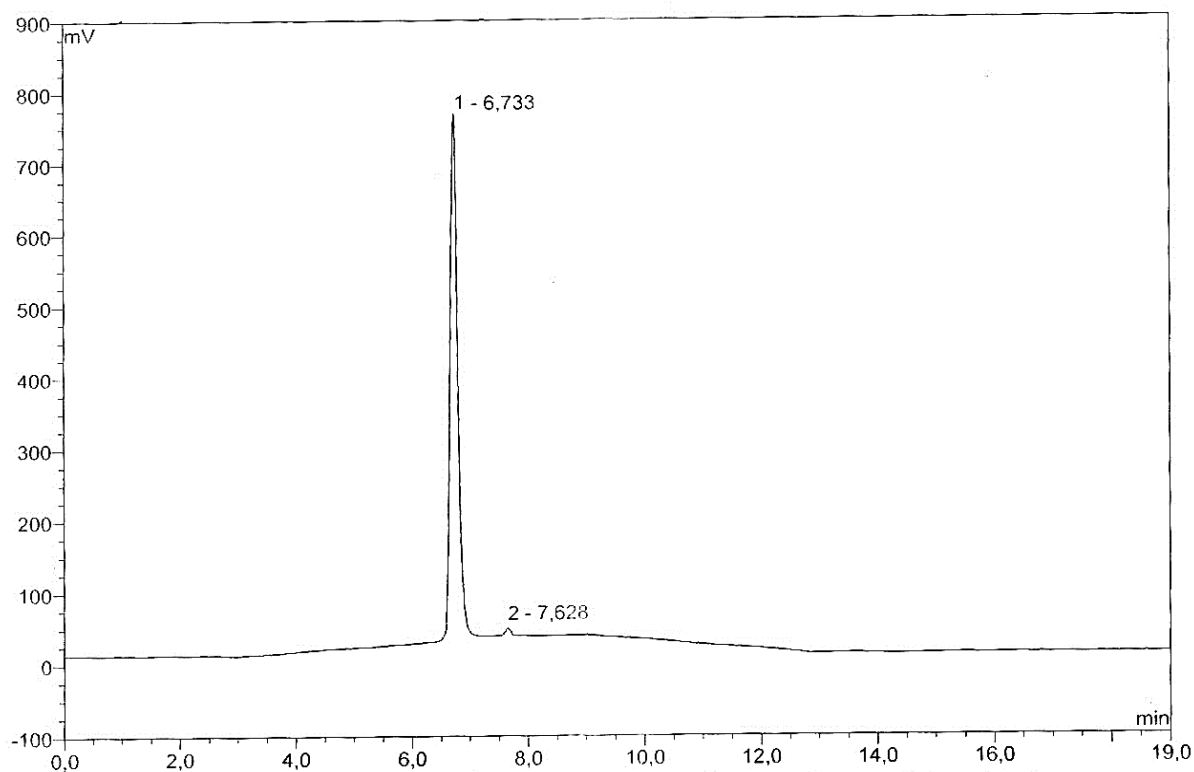
^{13}C NMR



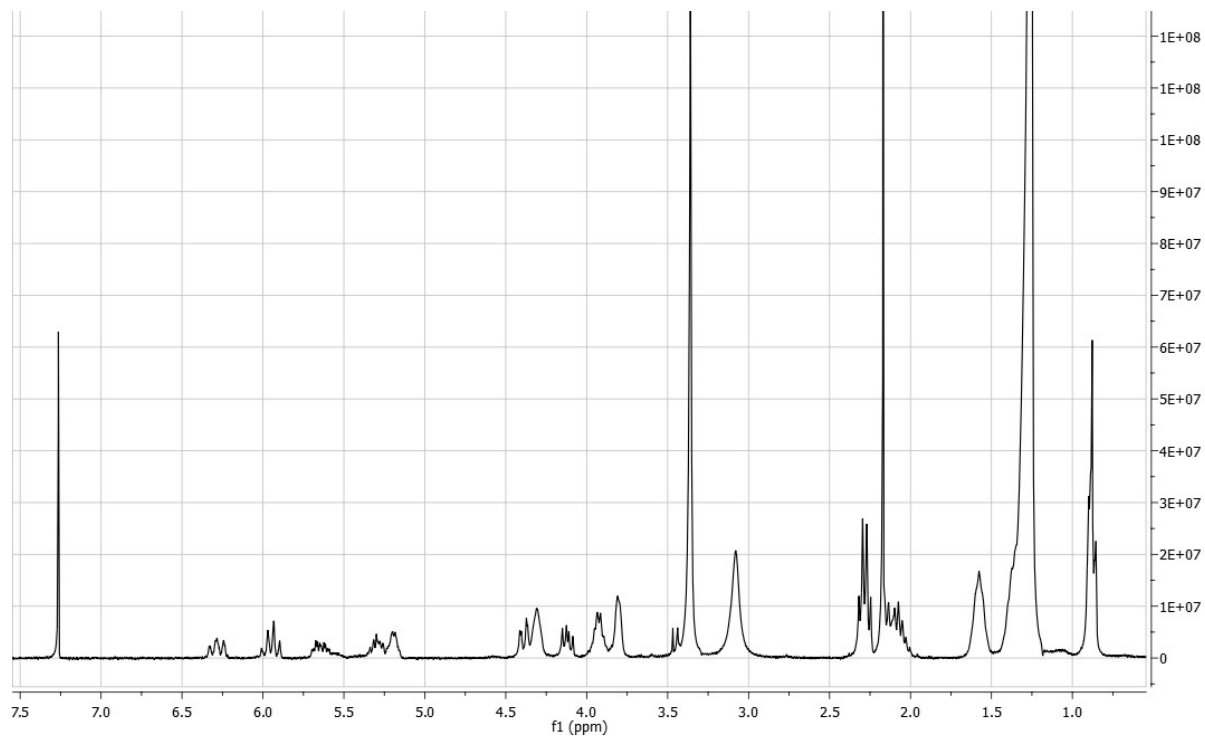
1-(Conjugated)linoleoyl-2-octadecanoyl-sn-glycero-3-phosphocholine 5c

Colourless greasy solid (121 mg, 80%) with 99% purity (according to HPLC, R_T 6.73 min), traces of 1-(conjugated)lineoyl LPC (R_T 7.63 min).

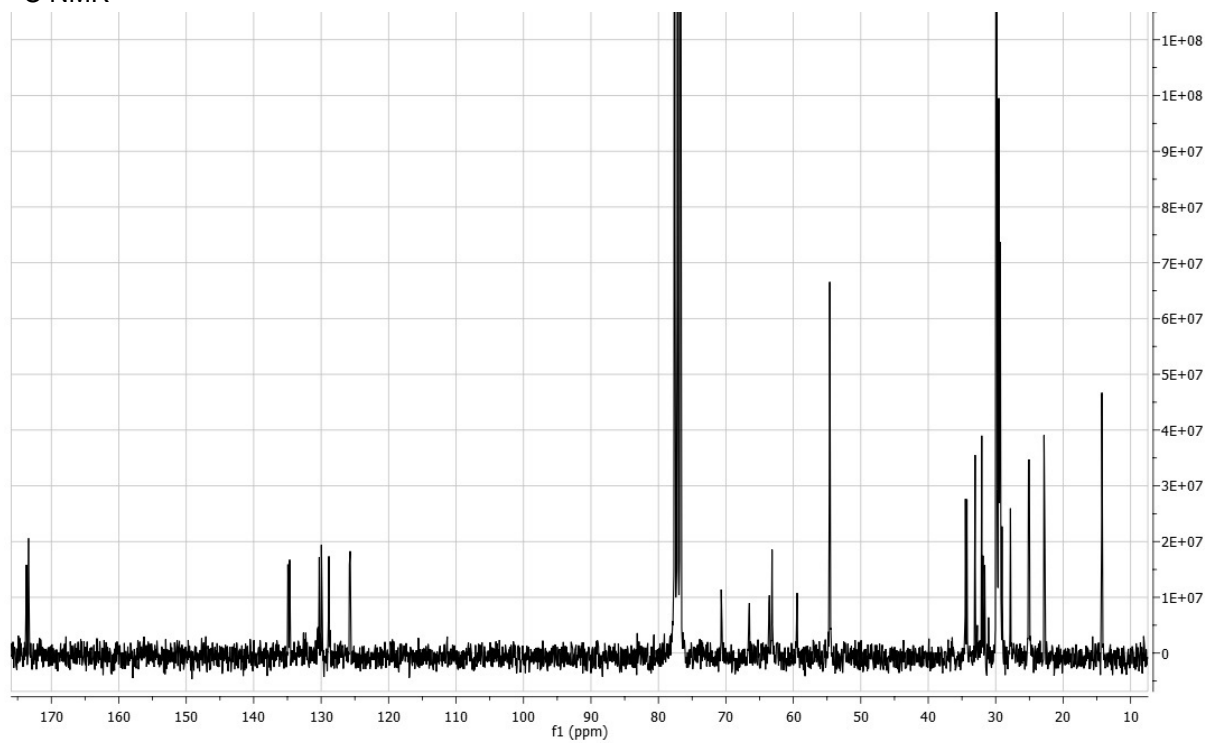
HPLC chromatogram



^1H NMR



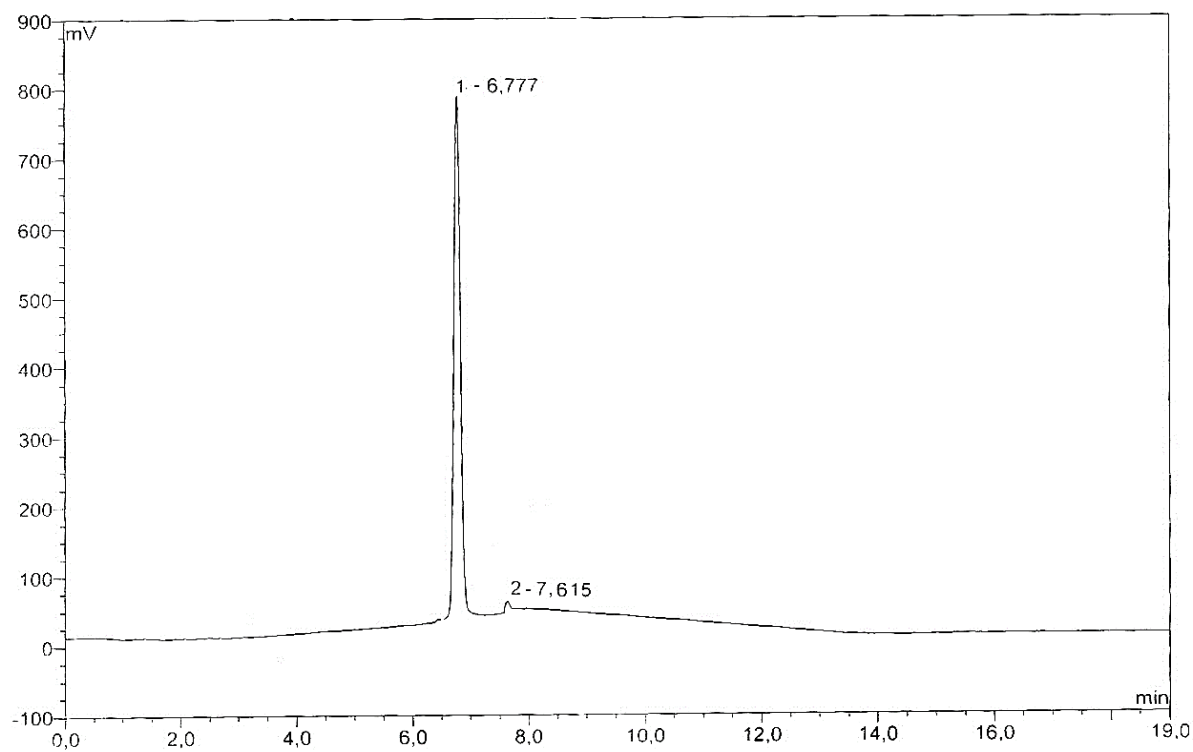
^{13}C NMR



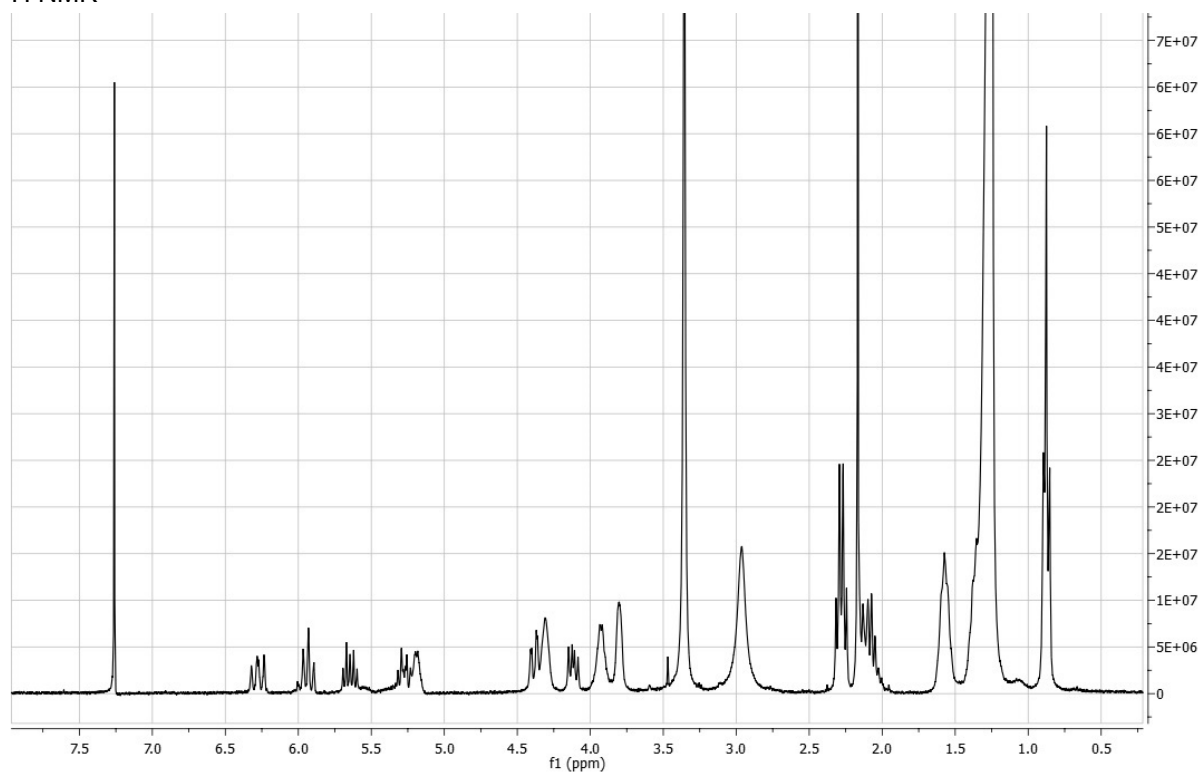
1-(9Z,11E)-Octadecadienoyl-2-octadecanoyl-sn-glycero-3-phosphocholine 5d

Colourless greasy solid (121 mg, 80%) with 98% purity (according to HPLC, R_T 6.74 min), traces of 1-(9Z,11E)-octadecadienoyl LPC (R_T 7.62 min).

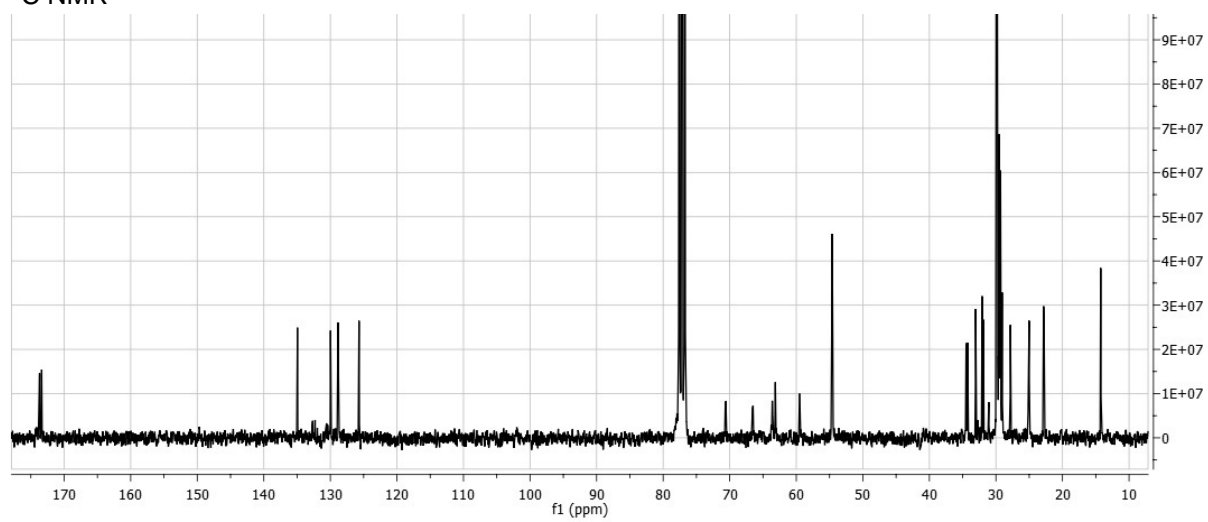
HPLC chromatogram



^1H NMR



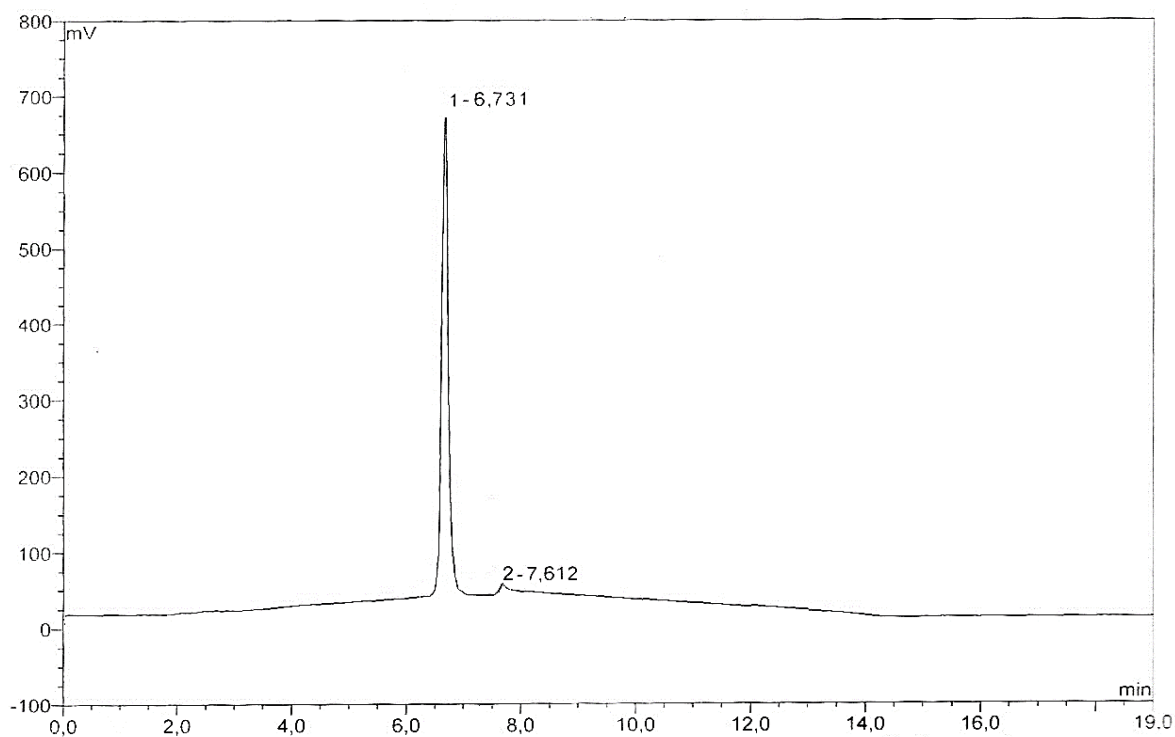
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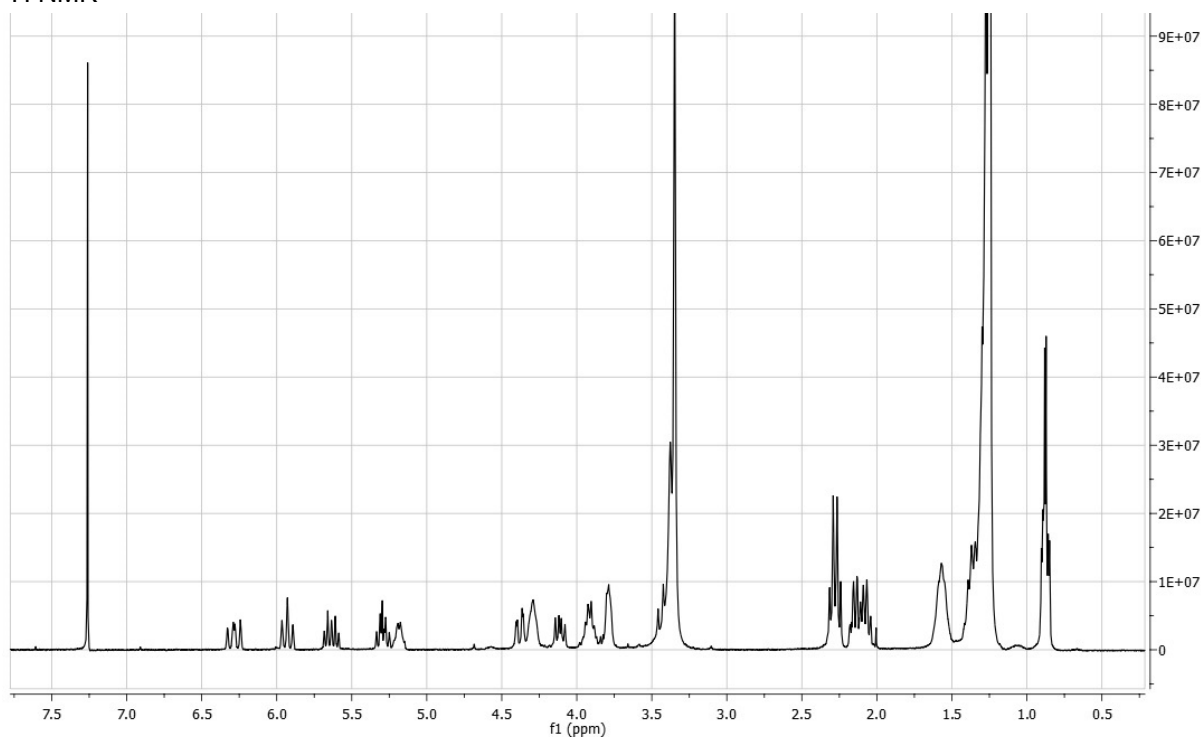
1-(10E,12Z)-Octadecadienoyl-2-octadecanoyl-sn-glycero-3-phosphocholine 5e

Colourless greasy solid (124 mg, 82%) with 99% purity (according to HPLC, R_T 6.73 min), traces of 1-(10E,12Z)-octadecadienoyl LPC (R_T 7.61 min).

HPLC chromatogram



^1H NMR



^{13}C NMR

