

ELECTRONIC SUPPORTING INFORMATION

Very Long-Chain Fatty Tails for Enhanced Transfection*

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1. Structures of compounds **12e**, **4**, **14** and **6**.

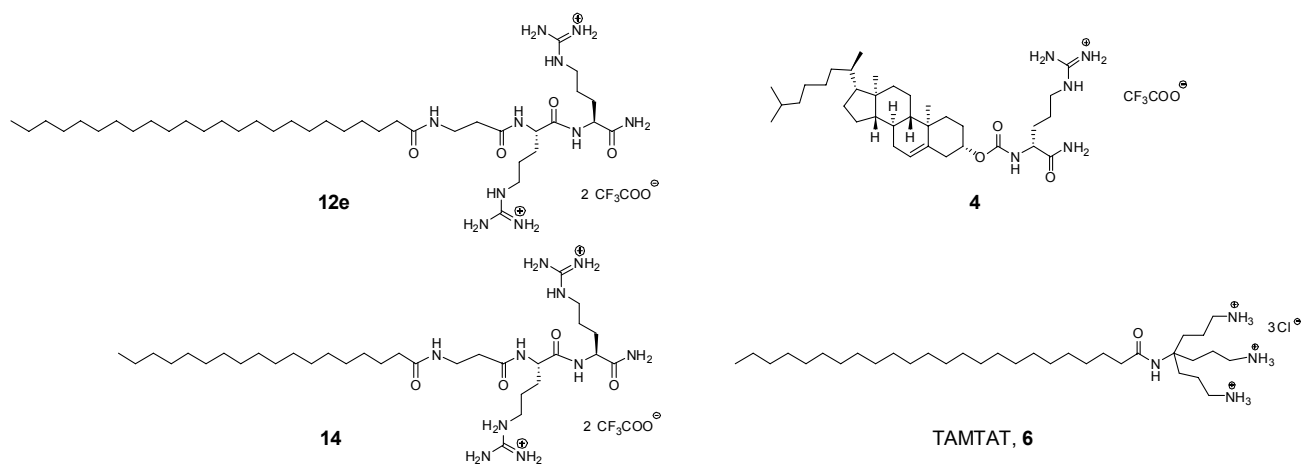
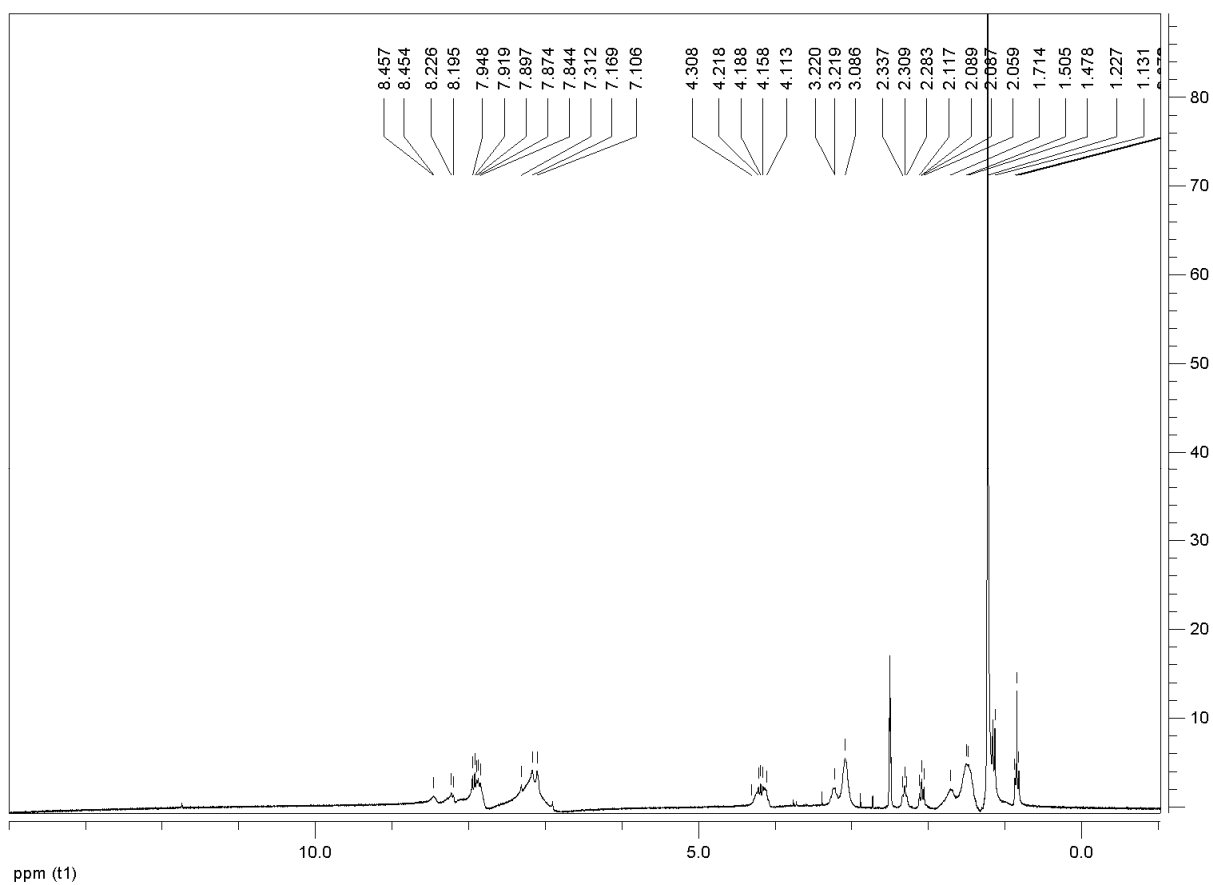
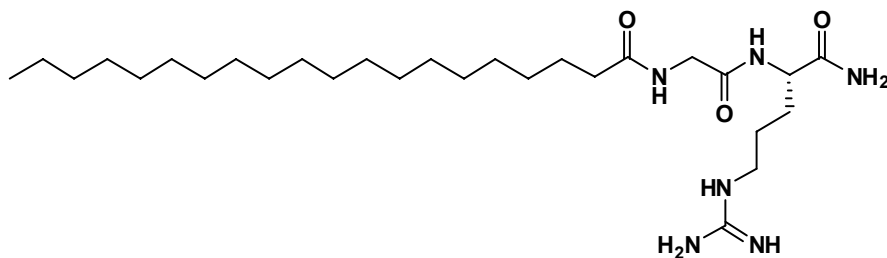


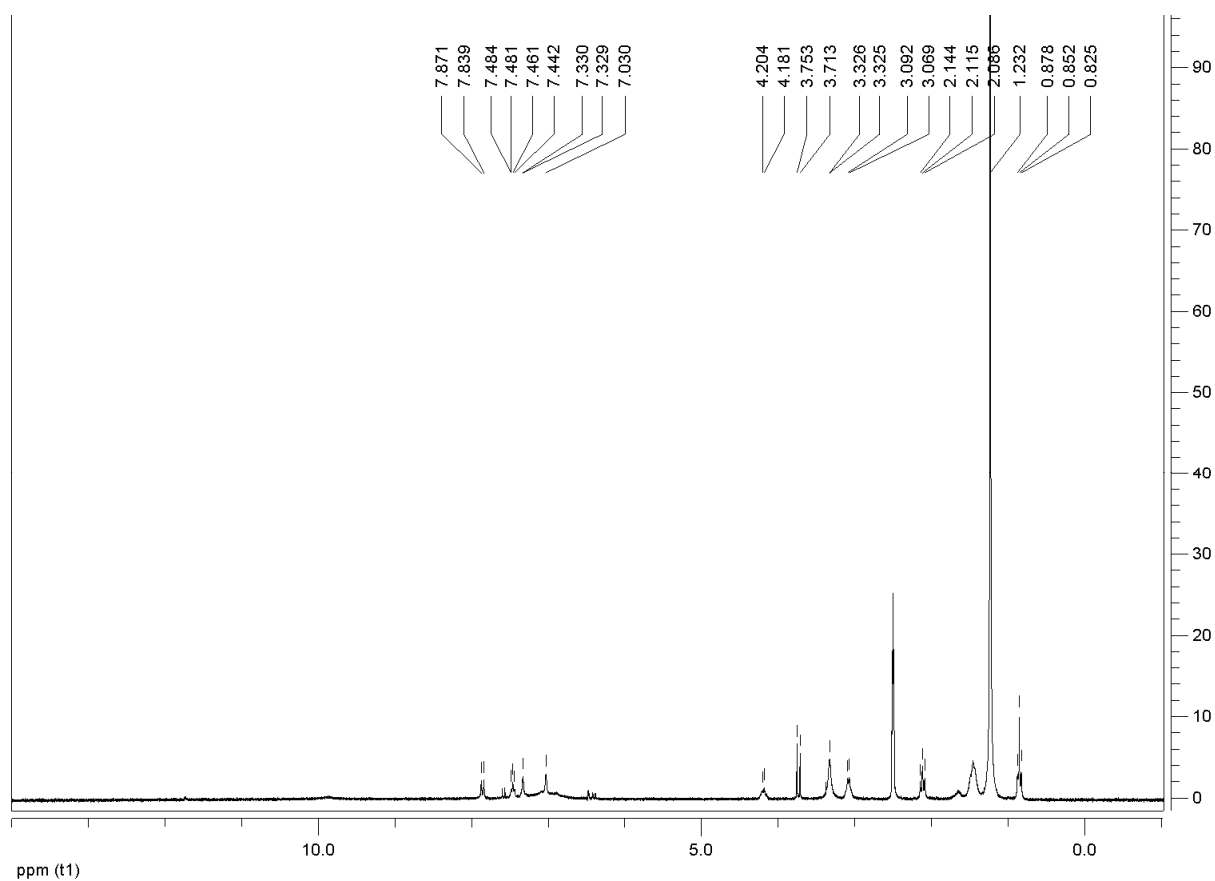
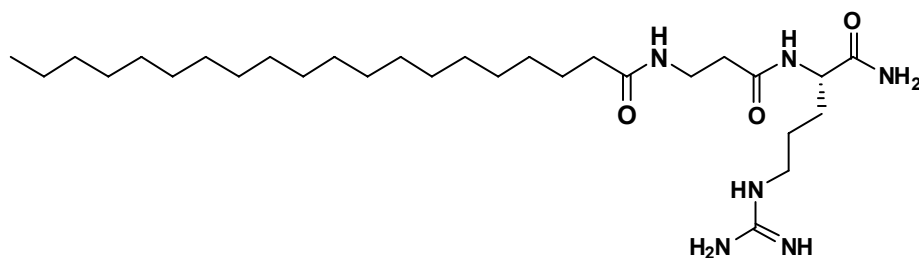
Fig 1. Structures of all home-made compounds analyzed by flow cytometry (Figure 4 of the manuscript).

2. ^1H -NMR spectra of **11a-e**, **12a-d** and **13a-c**.

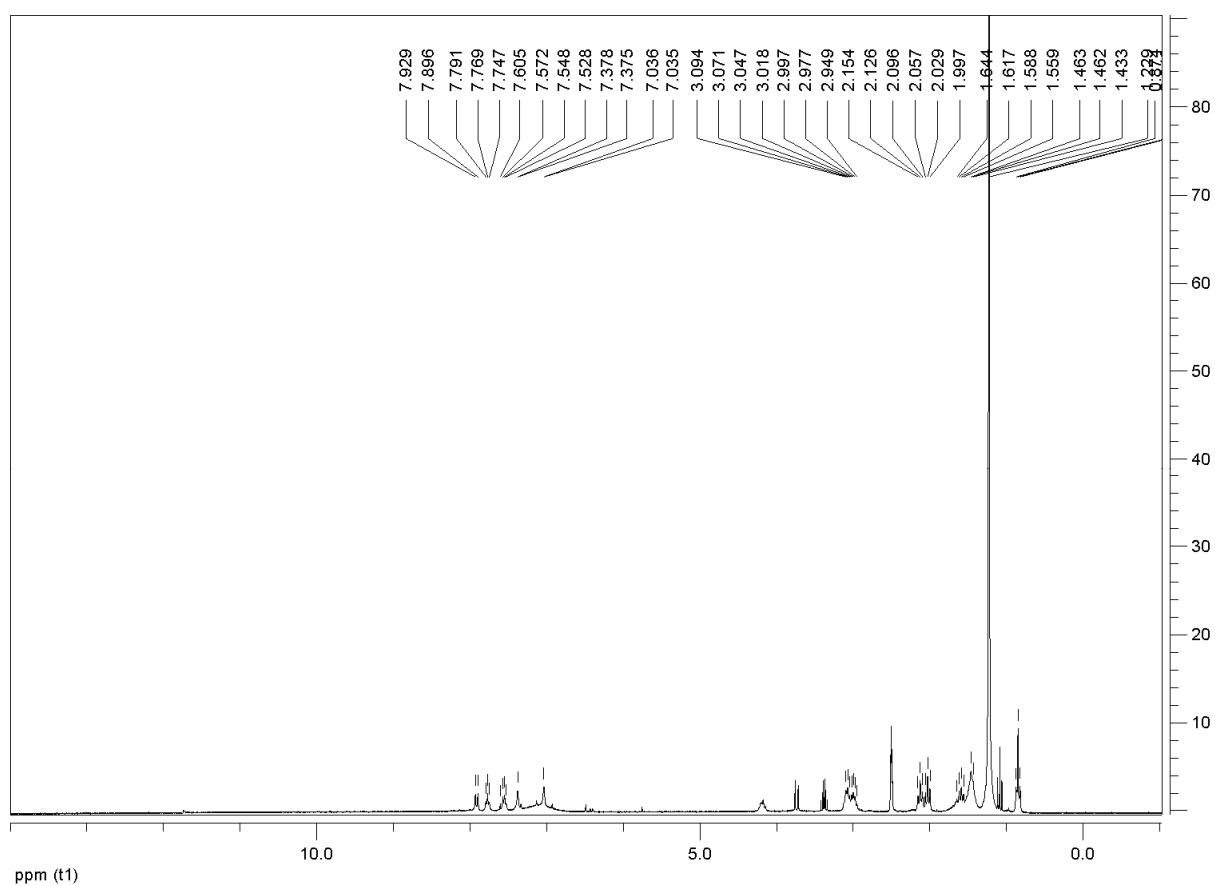
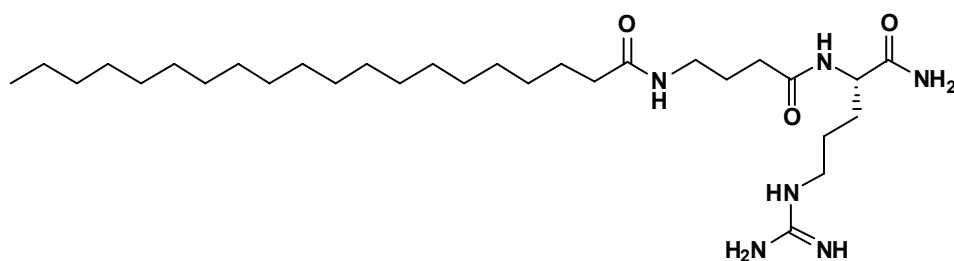
N-(*N'*-eicosanoyl-2-aminoacetyl)-L-argininamide, TFA salt (**11a**)



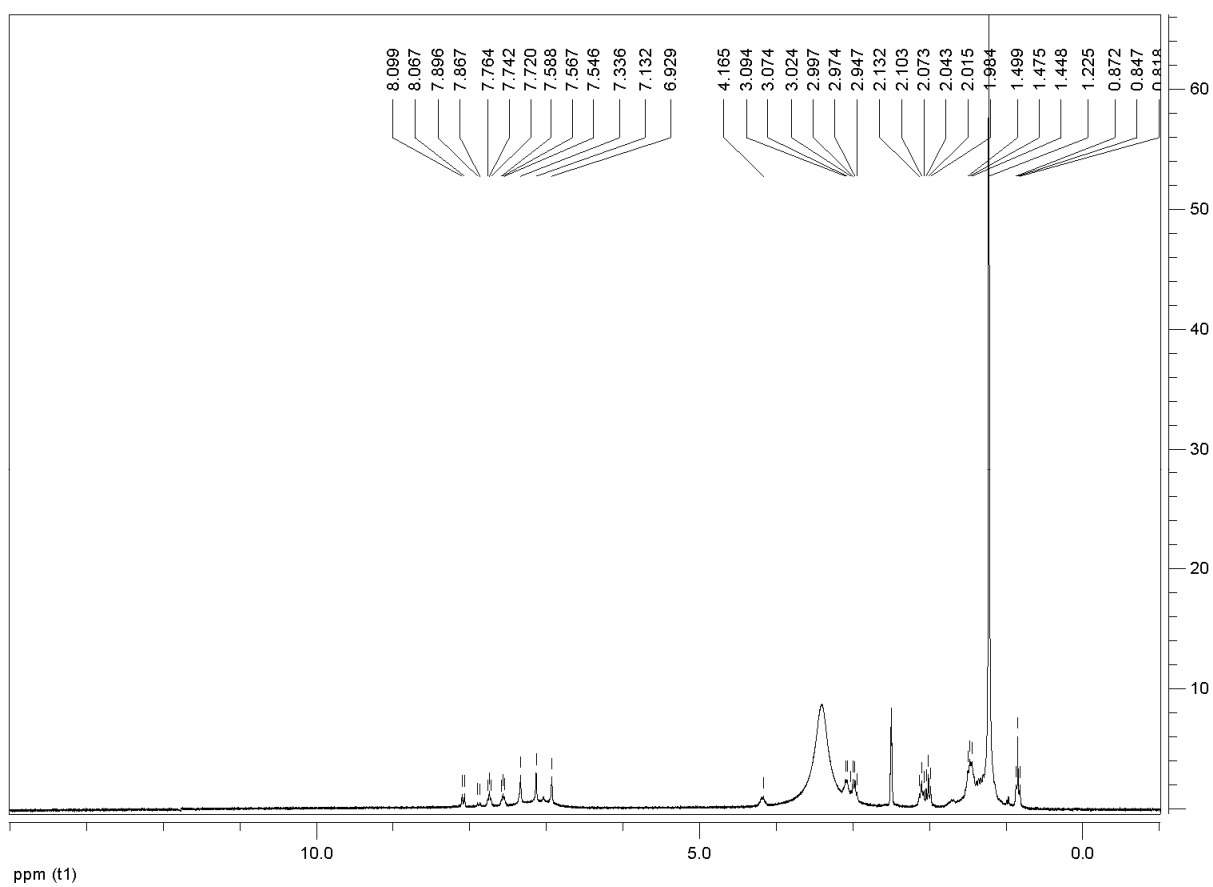
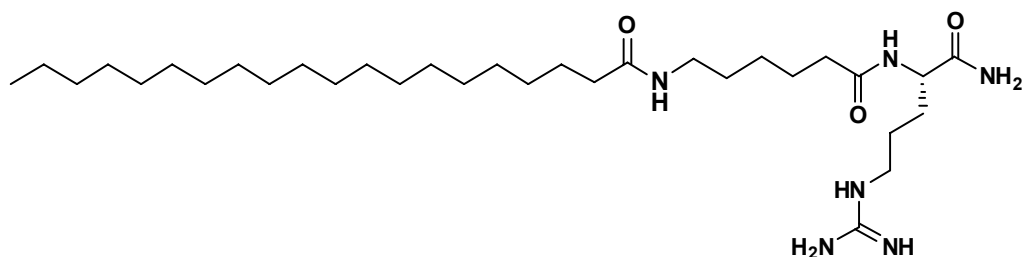
N-(*N'*-eicosanoyl-3-aminopropanoyl)-L-argininamide, TFA salt (**11b**)



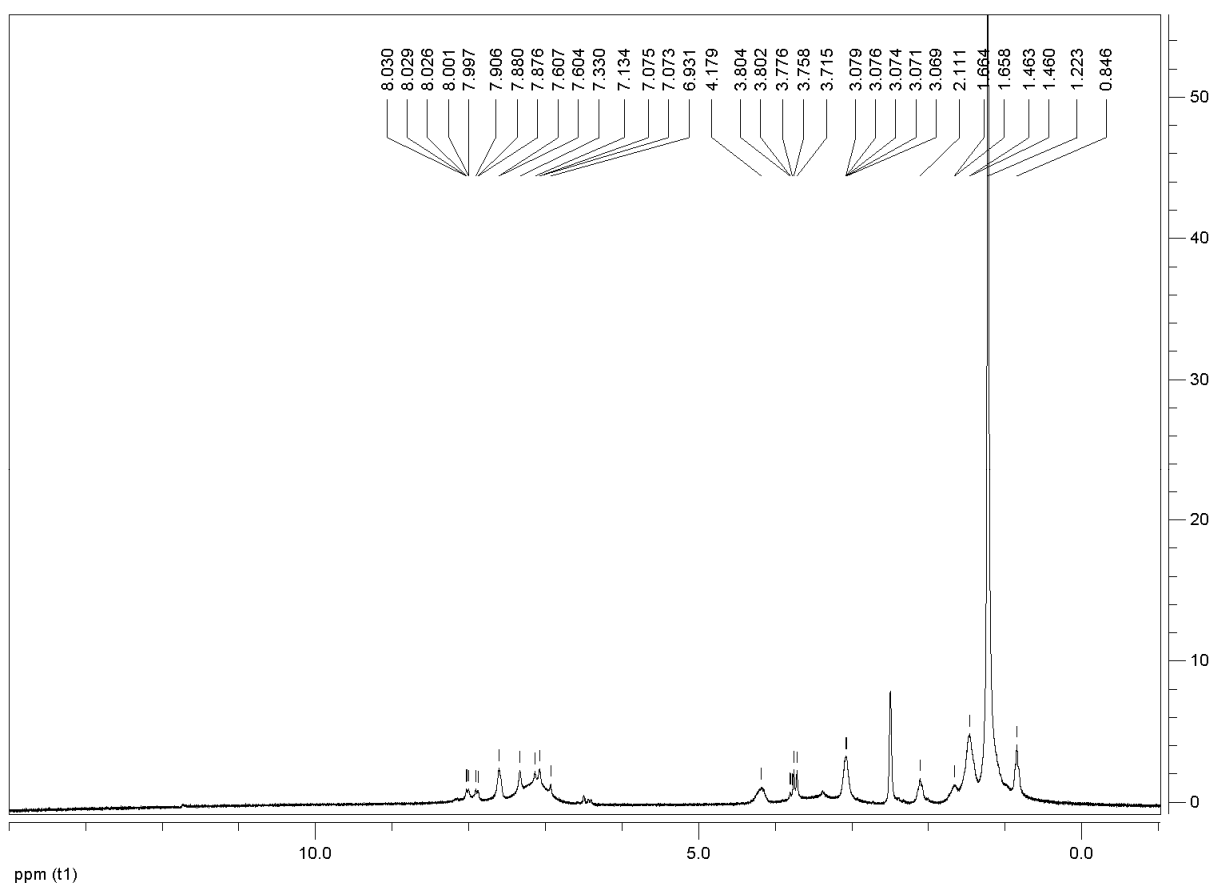
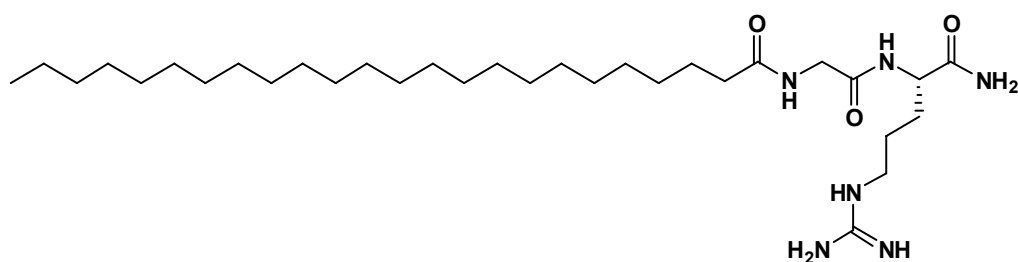
N-(*N'*-eicosanoyl-4-aminobutanoyl)-L-argininamide, TFA salt (**11c**)



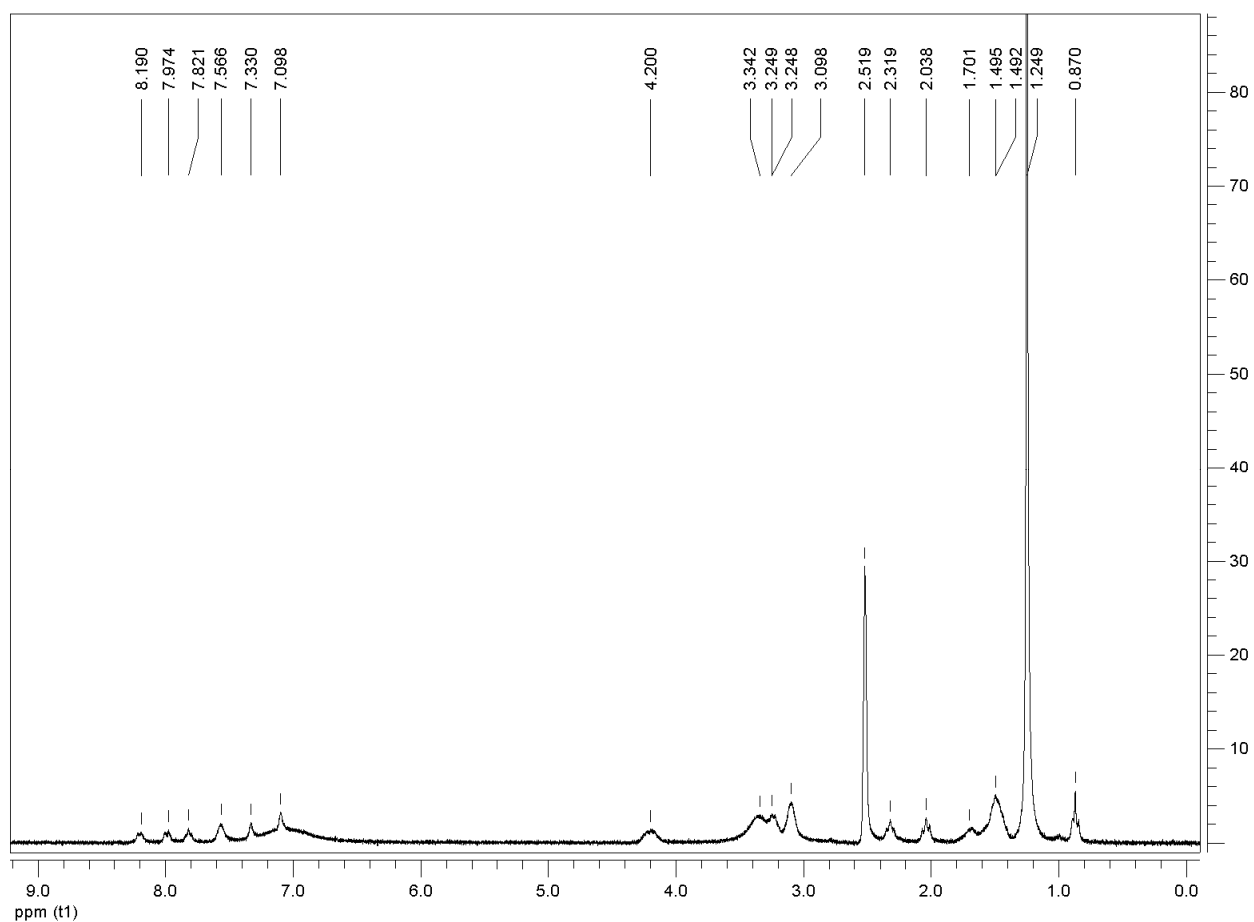
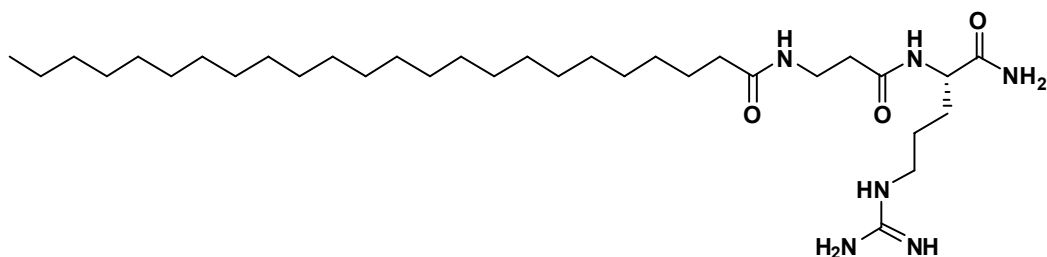
N-(*N'*-eicosanoyl-6-aminohexanoyl)-L-argininamide, TFA salt (**11d**)



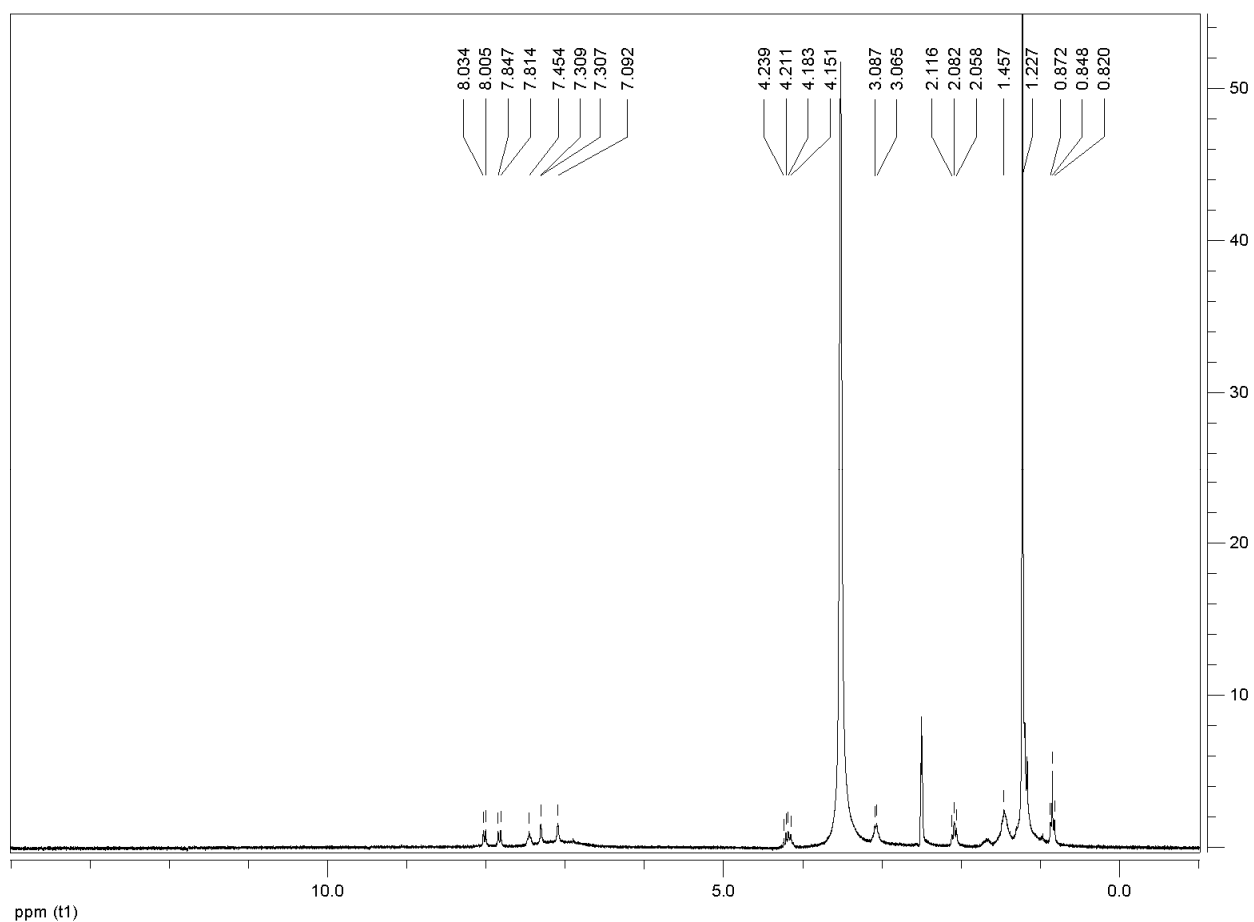
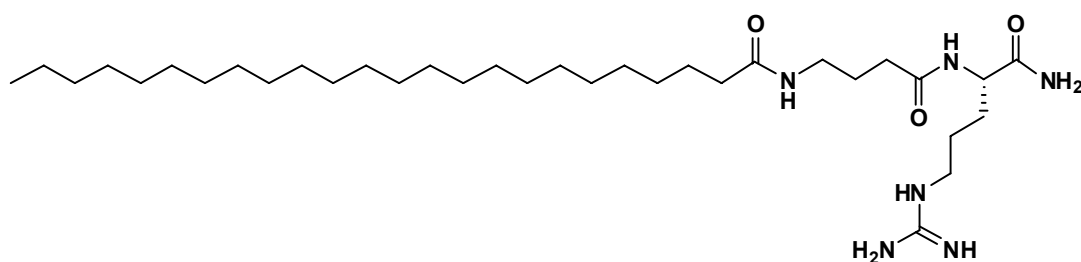
N-(*N'*-tetracosanoyl-2-aminoacetyl)-L-argininamide, TFA salt (**11e**)



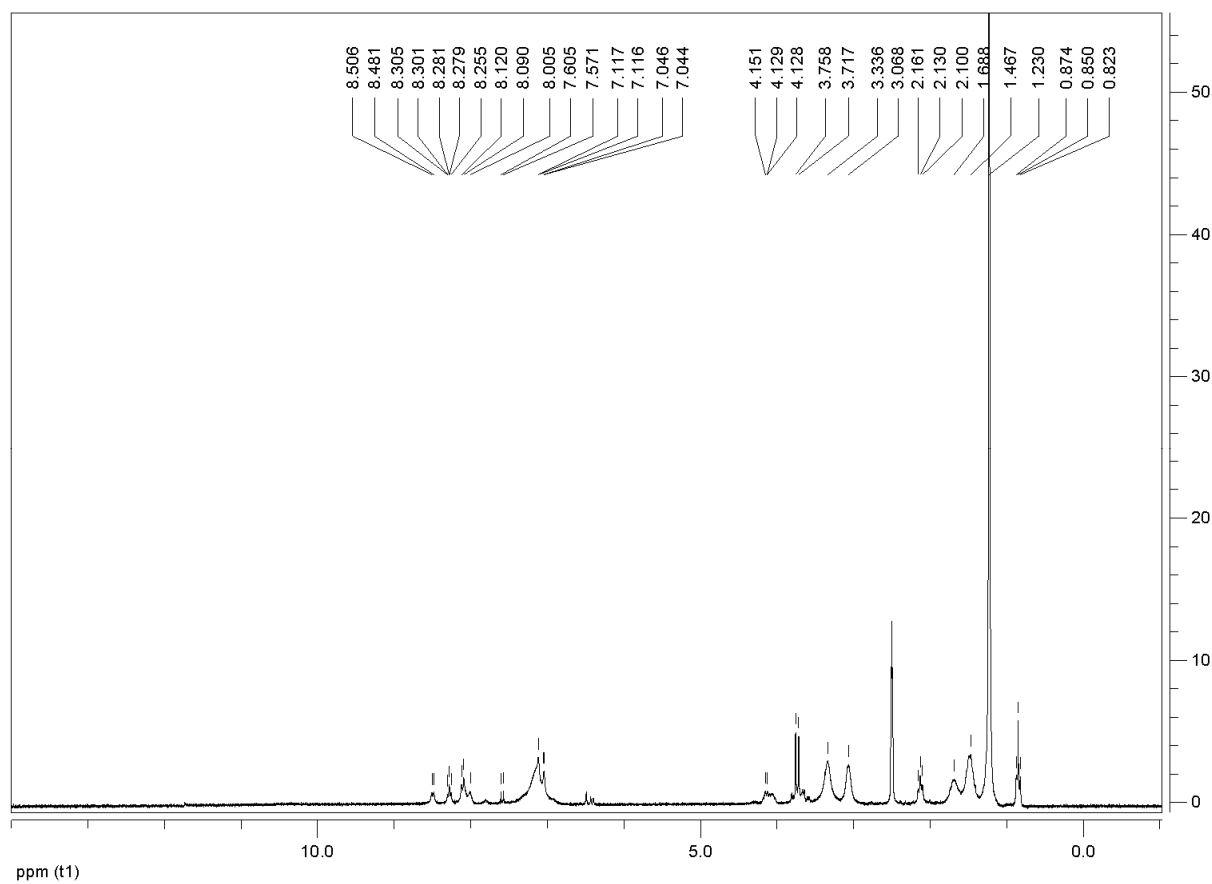
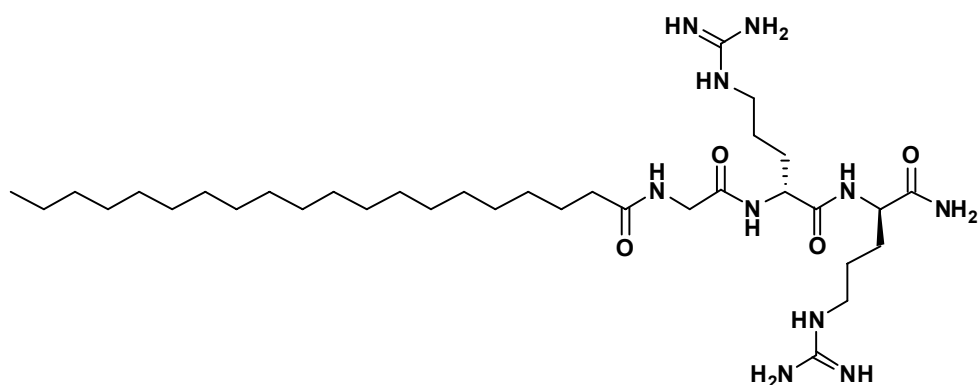
N-(*N'*-tetracosanoyl-3-aminopropanoyl)-L-argininamide, TFA salt (**11f**)



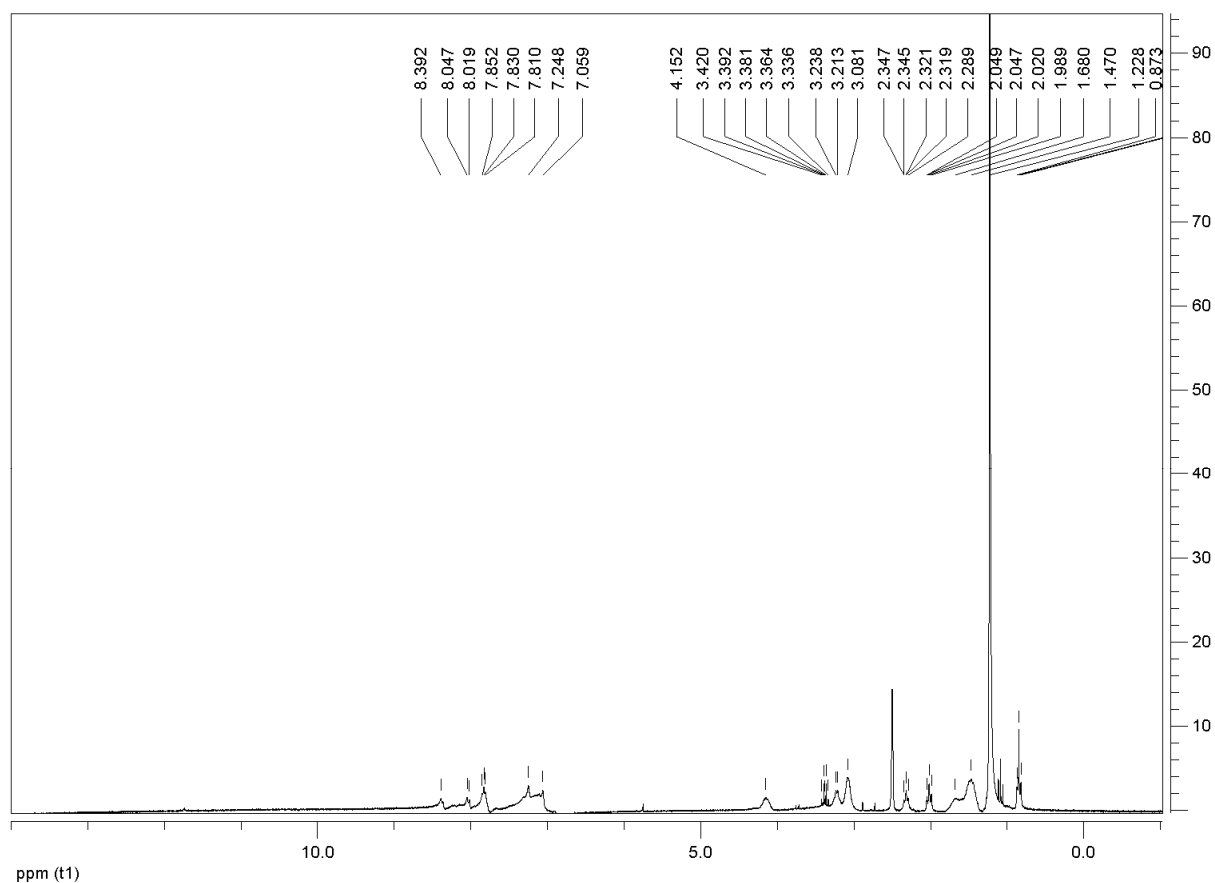
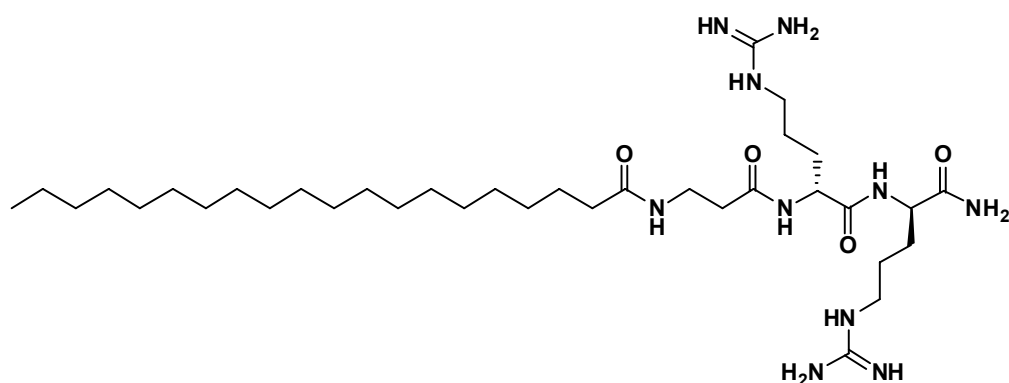
N-(*N'*-tetracosanoyl-4-aminobutanoyl)-L-argininamide, TFA salt (**11g**)



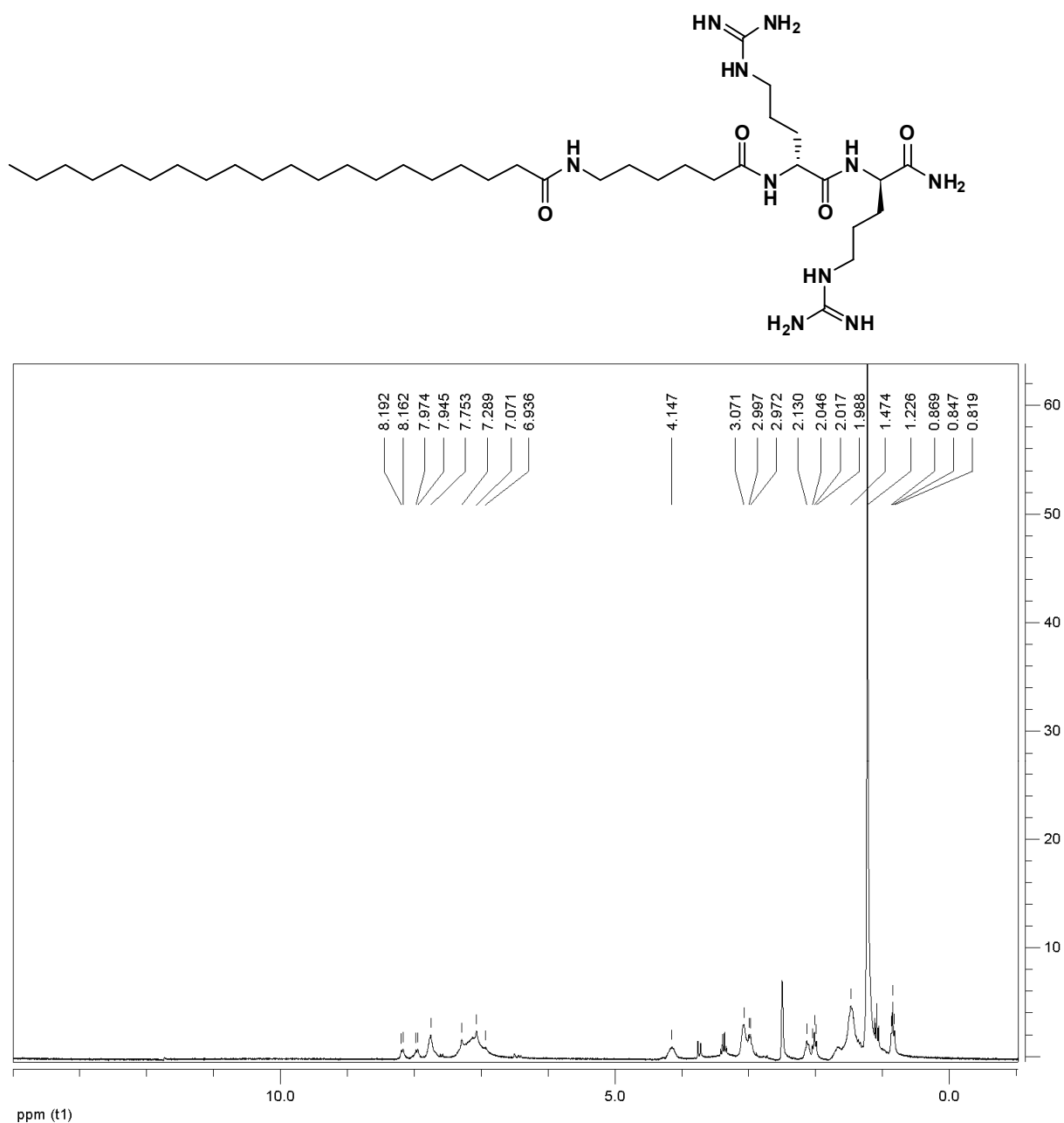
N-[*N'*-(*N''*-eicosanoyl-(2-aminocetyl))-L-argininyl]-L-argininamide, TFA salt (**12a**)



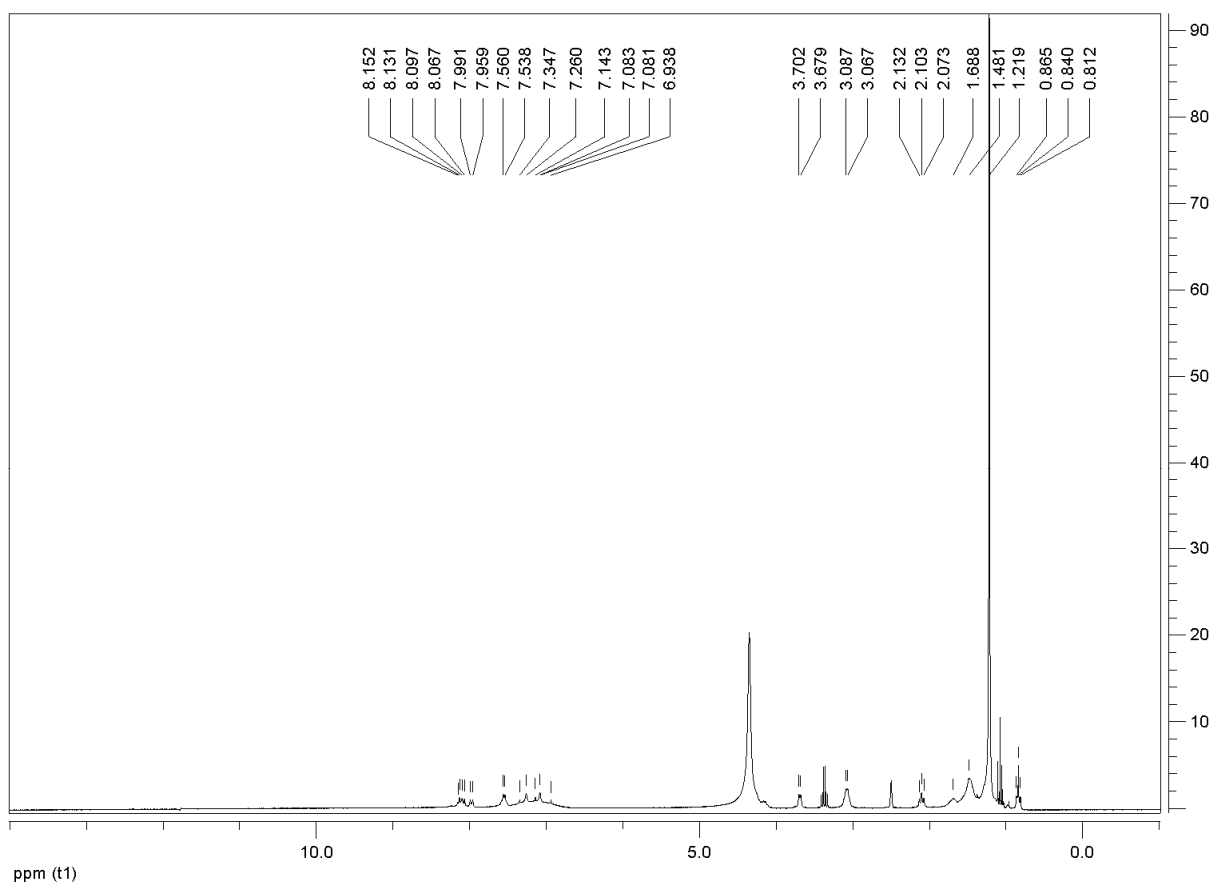
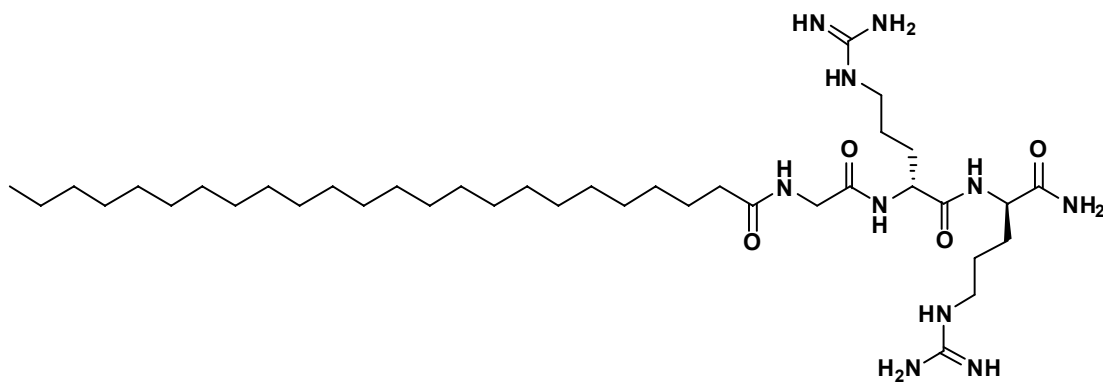
N-[*N'*-(*N''*-eicosanoyl-(3-aminopropanoyl))-L-argininyl]-L-argininamide, TFA salt (**12b**)



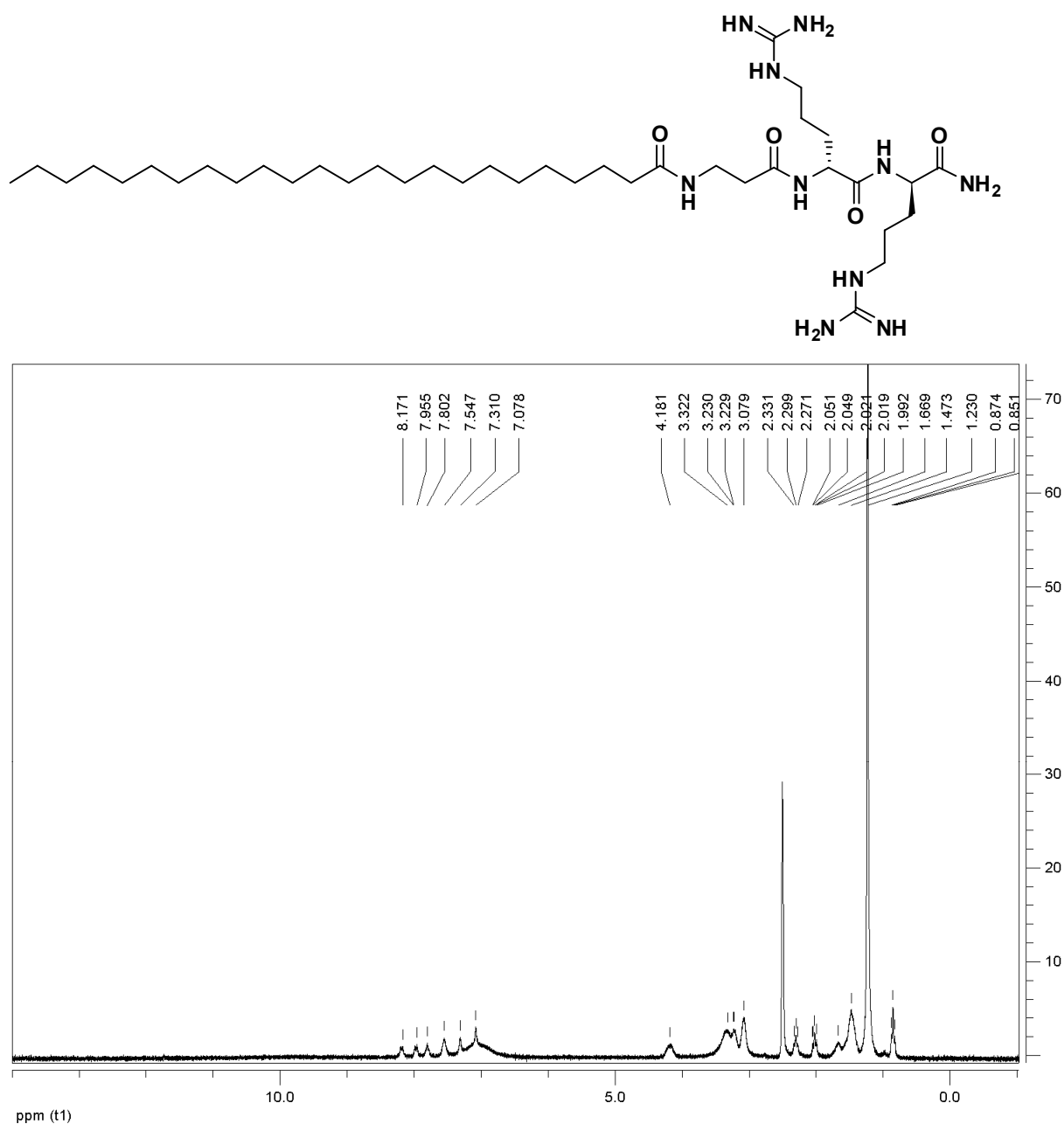
N-[*N'*-(*N''*-eicosanoyl-(6-aminohexanoyl))-L-argininyl]-L-argininamide, TFA salt (**12c**)



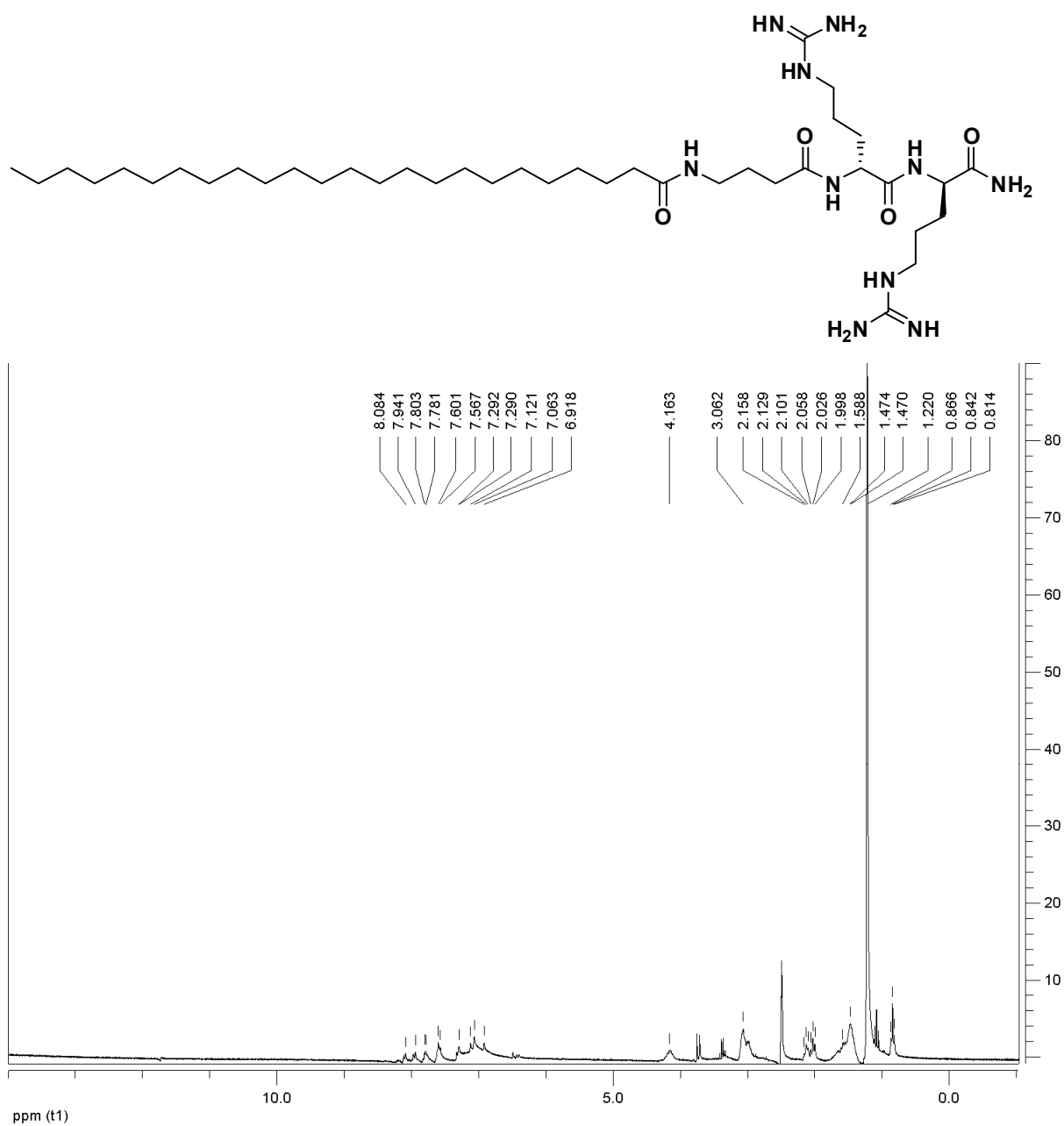
N-[*N*'-(*N*'-tetracosanoyl)-(2-aminocaetyl)-L-argininyl]-L-argininamide, -L-argininamide, TFA salt (**12d**)



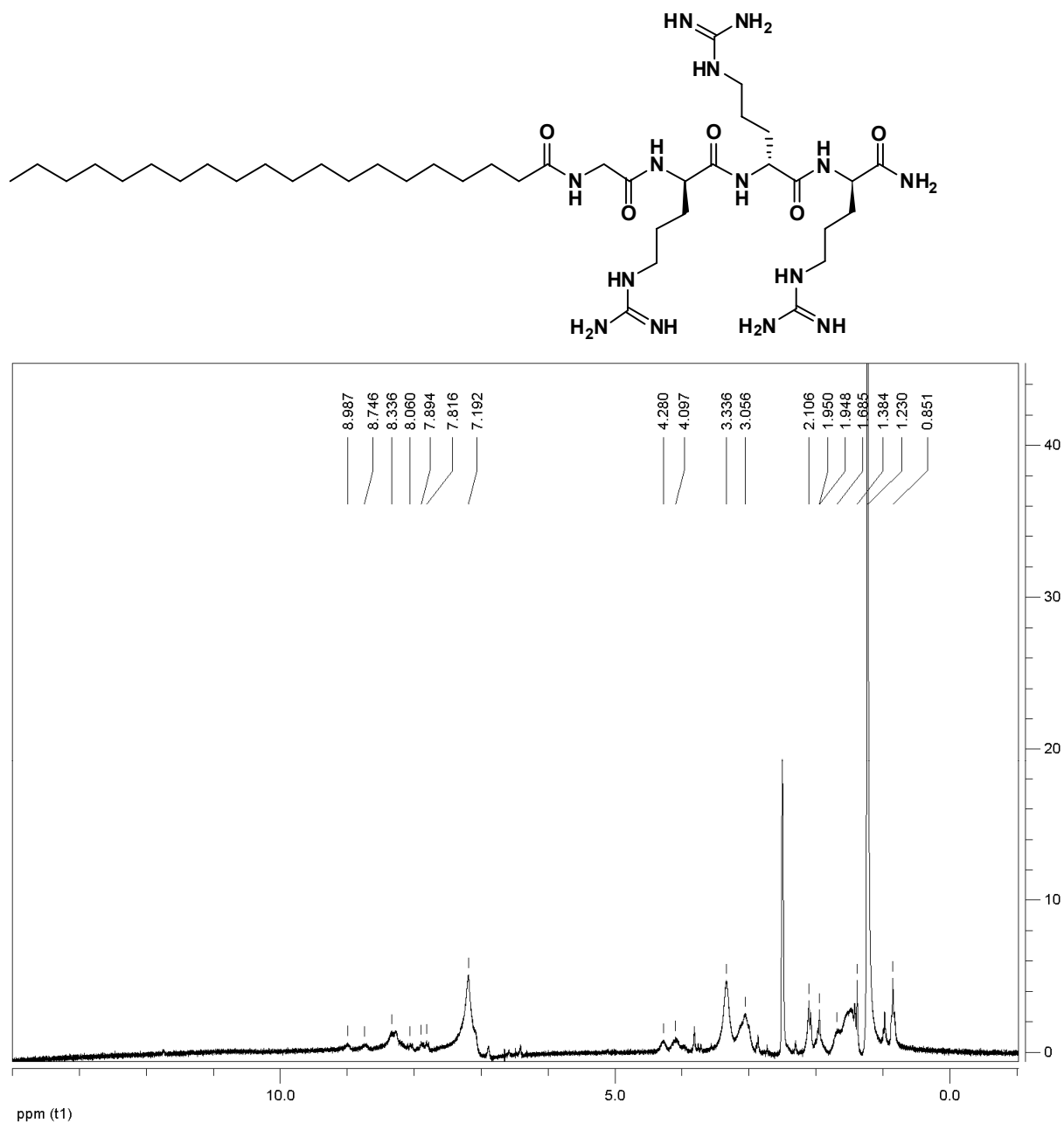
N-[*N'*-(*N''*-tetracosanoyl-(3-aminopropanoyl))-L-argininyl]-L-argininamide, TFA salt (**12e**)



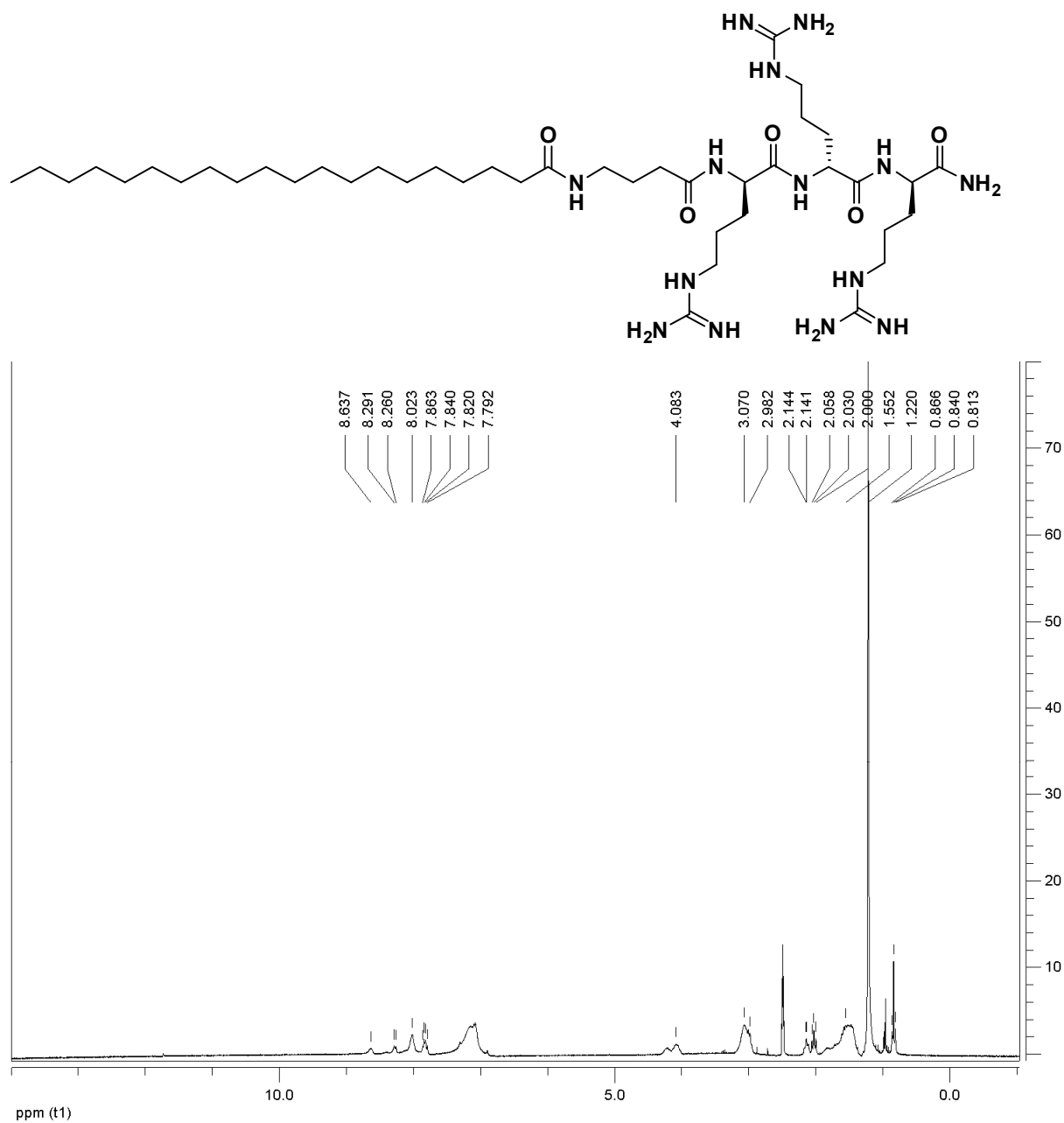
N-[*N'*-(*N''*-tetracosanoyl-(4-aminobutanoyl))-L-argininyl]-L-argininamide, TFA salt (**12f**)



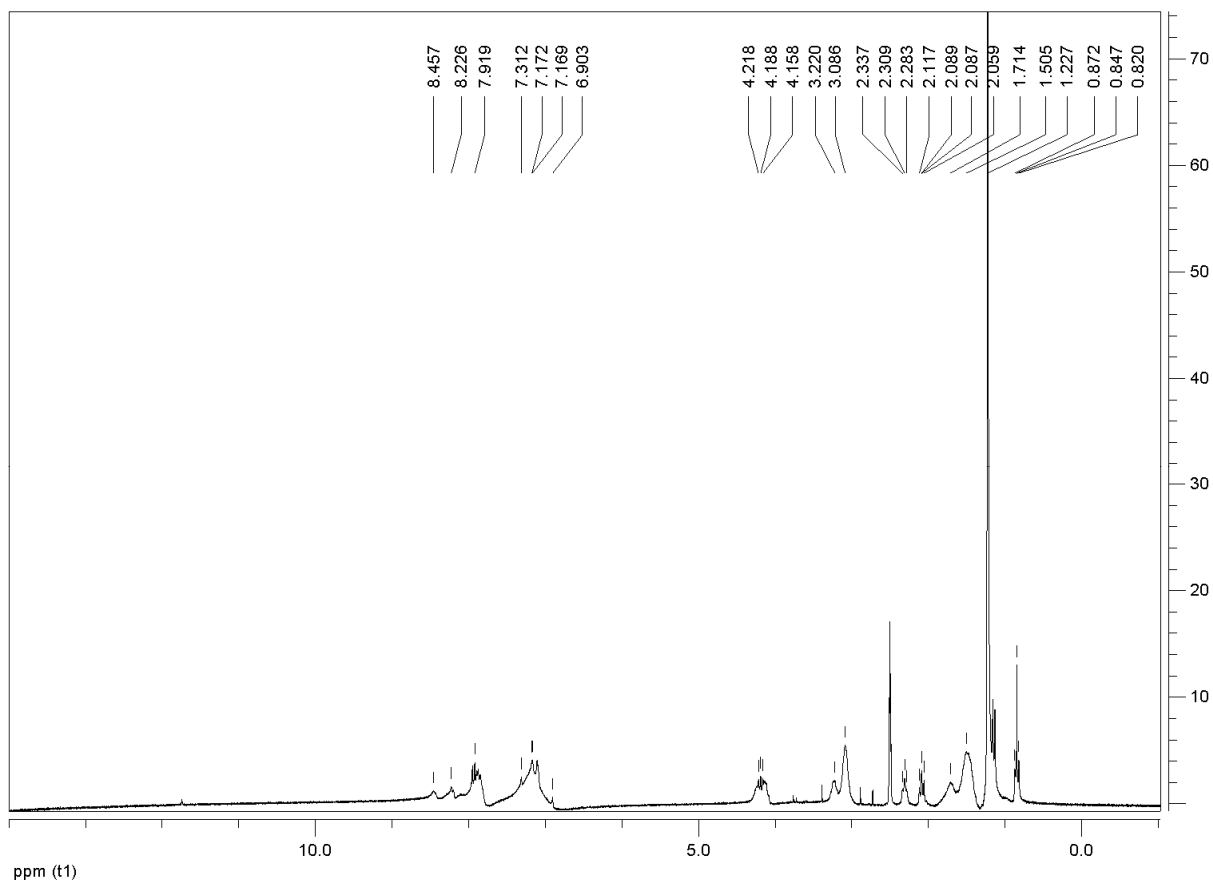
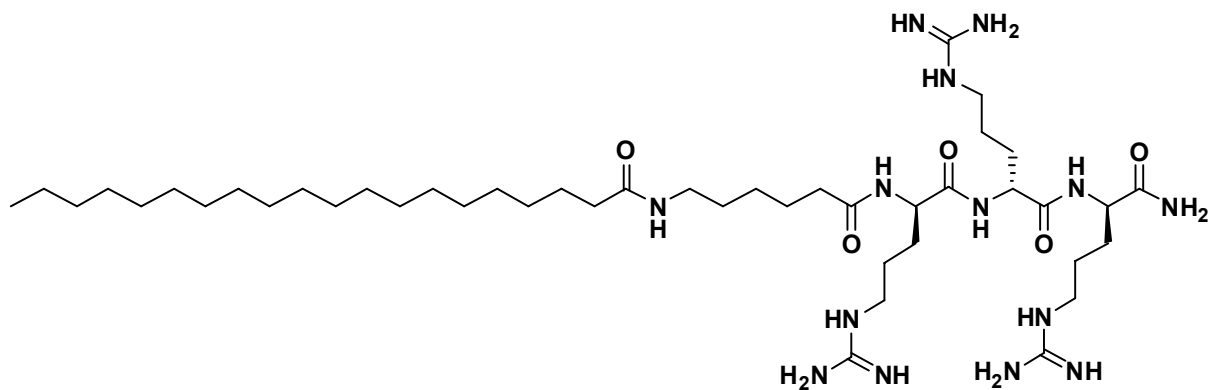
N-[*N'*-(*N''*'-[*N'''*]-eicosanoyl-(2-aminoacetyl)]-L-argininyl]-L-argininyl]-L-argininamide, TFA salt (**13a**)



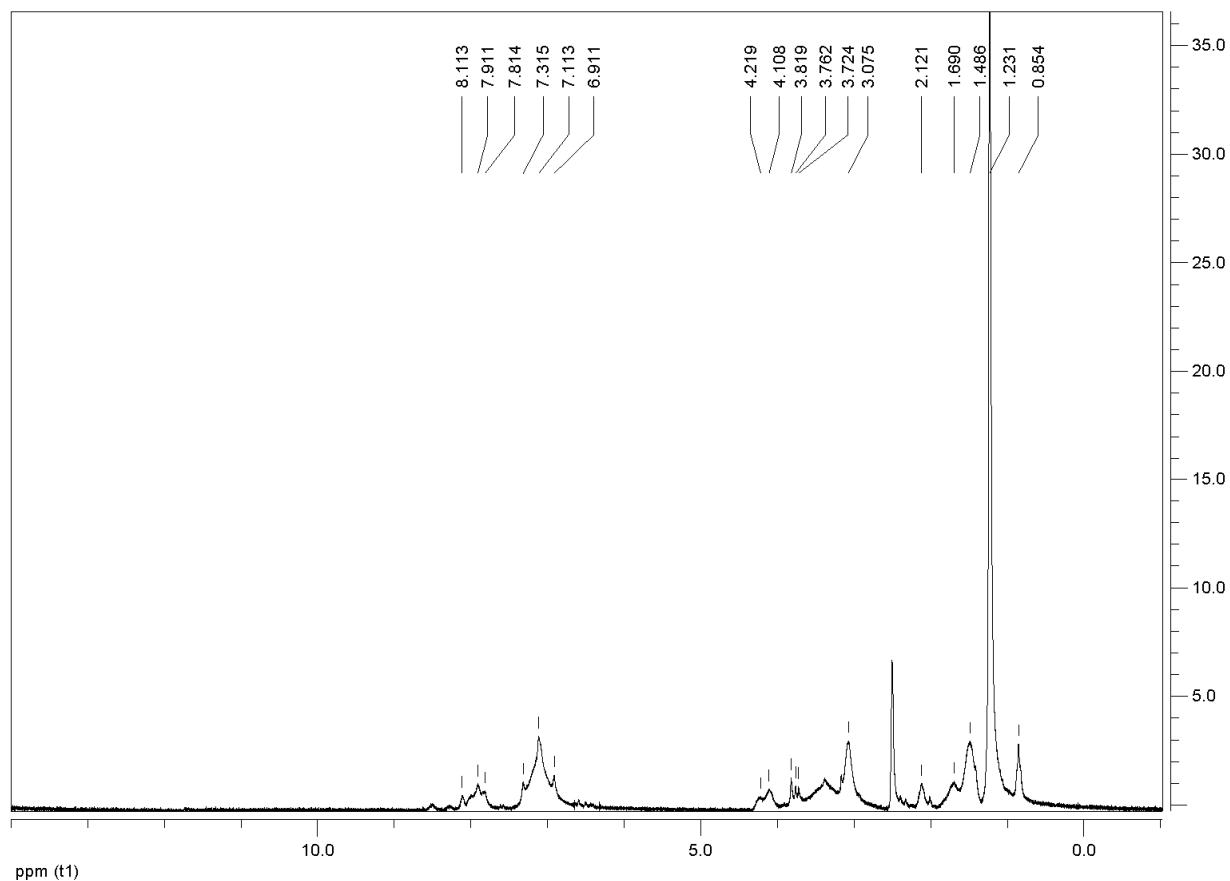
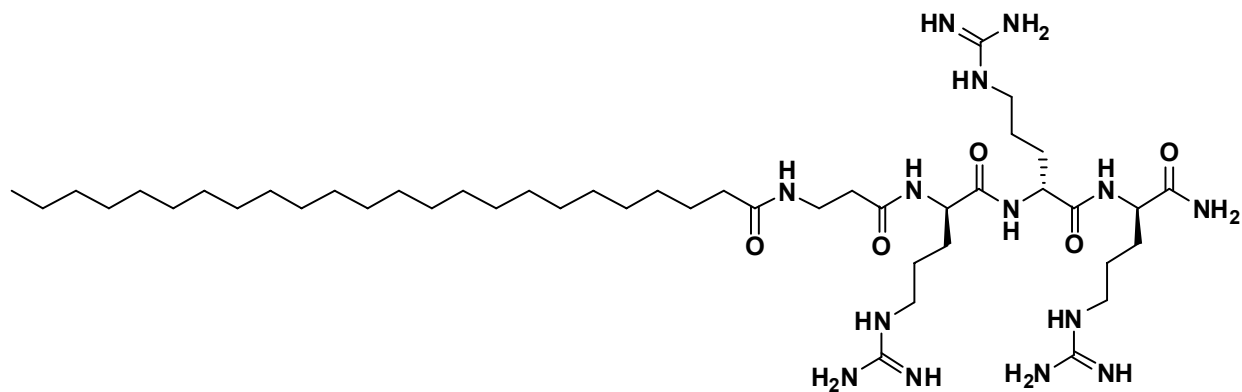
N-[*N'*-(*N''*'-[*N'''*]-eicosanoyl)-(4-aminobutanoyl)]-L-argininyl]-L-argininyl]-L-argininamide, TFA salt (**13b**)



N-[*N'*-(*N''*'-[*N'''*]-eicosanoyl-(6-aminohexanoyl)]-L-argininyl)-L-argininyl]--L-argininamide, TFA salt (**13c**)



N-[*N'*-(*N''*'-[*N'''*]-tetracosanoyl-(3-aminopropanoyl)]-L-argininyl]-L-argininyl]-L-argininamide, TFA salt (**13d**)



N-[*N'*-(*N''*'-[*N'''*]-tetracosanoyl)-(6-aminohexanoyl)]-L-argininyl]-L-argininyl]-L-argininamide, TFA salt (**13e**)

