

Supporting Information

Augmenting vaccine immunogenicity through the use of natural human anti-rhamnose antibodies

Authors

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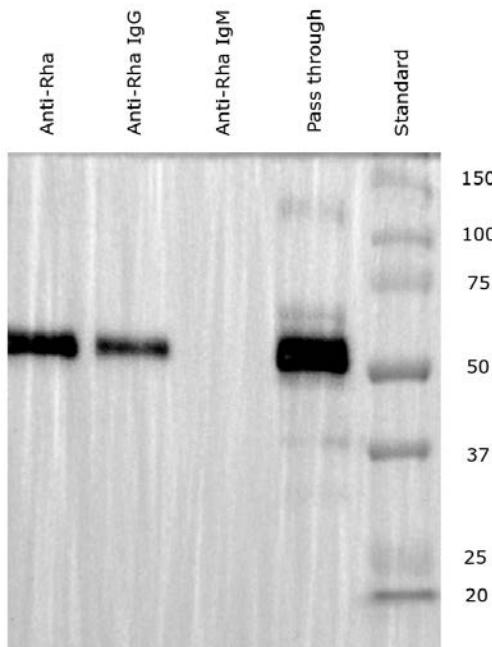
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Figure S1. Separation of human anti-Rha IgG and anti-Rha IgM.

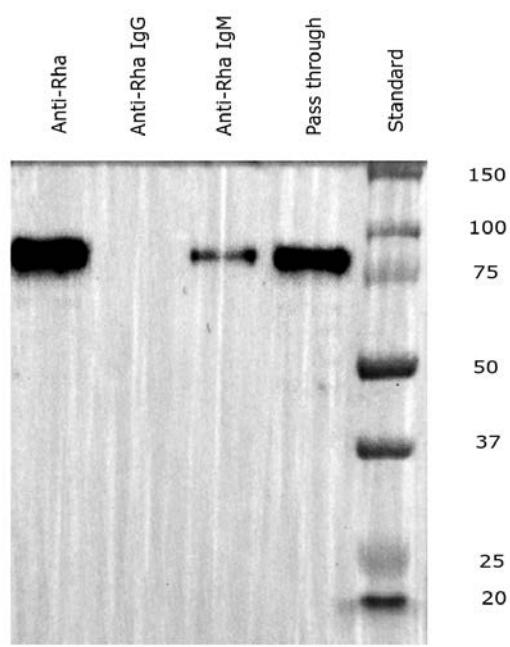
A & B. Separation of anti-Rha IgG and IgM using protein G Sepharose 4B beads. When affinity-purified anti-Rha antibody is mixed with protein G Sepharose beads, anti-Rha IgG binds with protein G and the unbound antibody contains IgM. Using Gly-HCl buffer, anti-Rha IgG is eluted from the beads. Western blotting data shows the purity of separated IgM and IgG samples. Pass through refers to non-anti-Rha antibodies from the Rha affinity column.

A



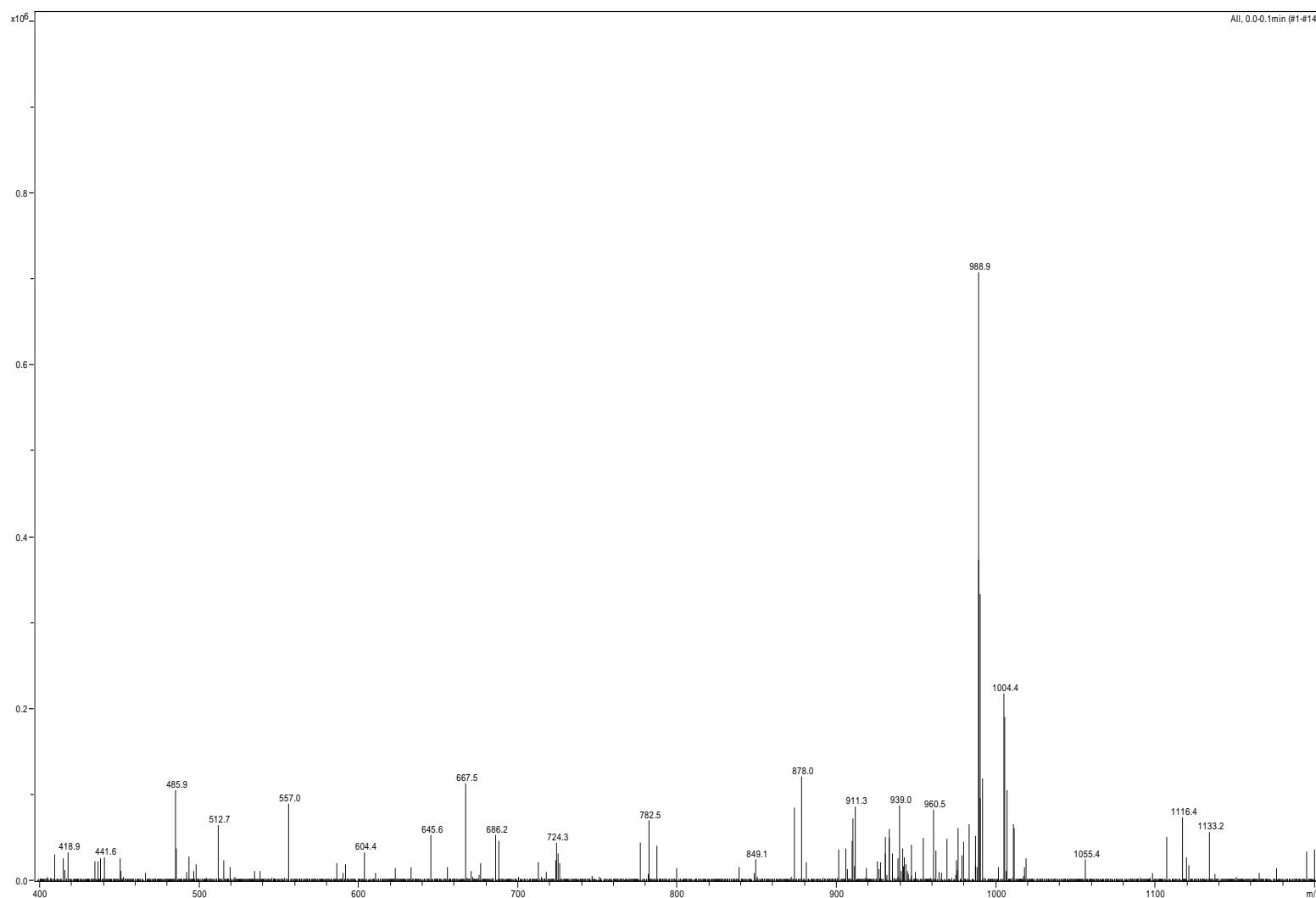
Secondary antibody: Anti-human IgG (Fc specific)

B

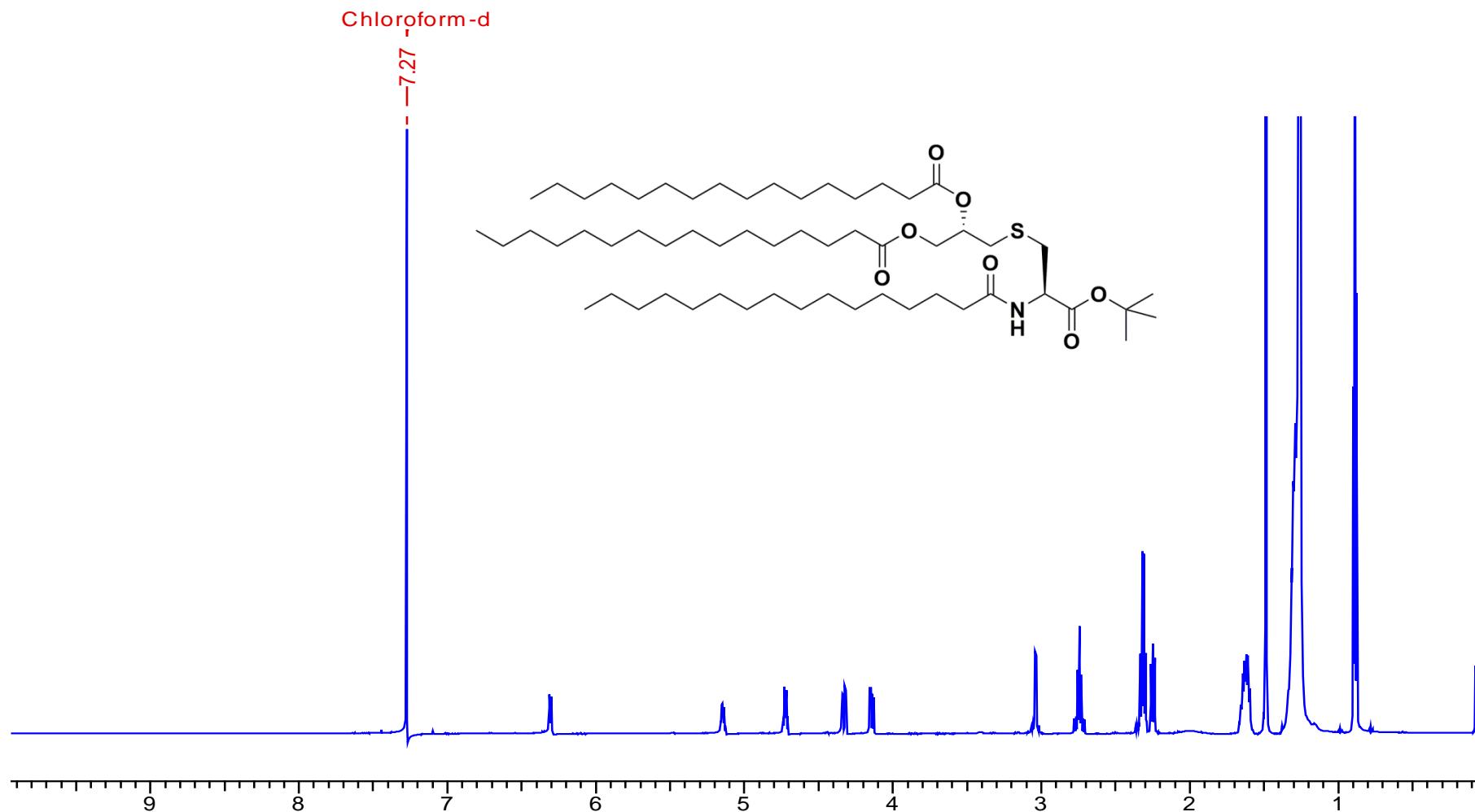


Secondary antibody: Anti-human IgM (μ chain specific)

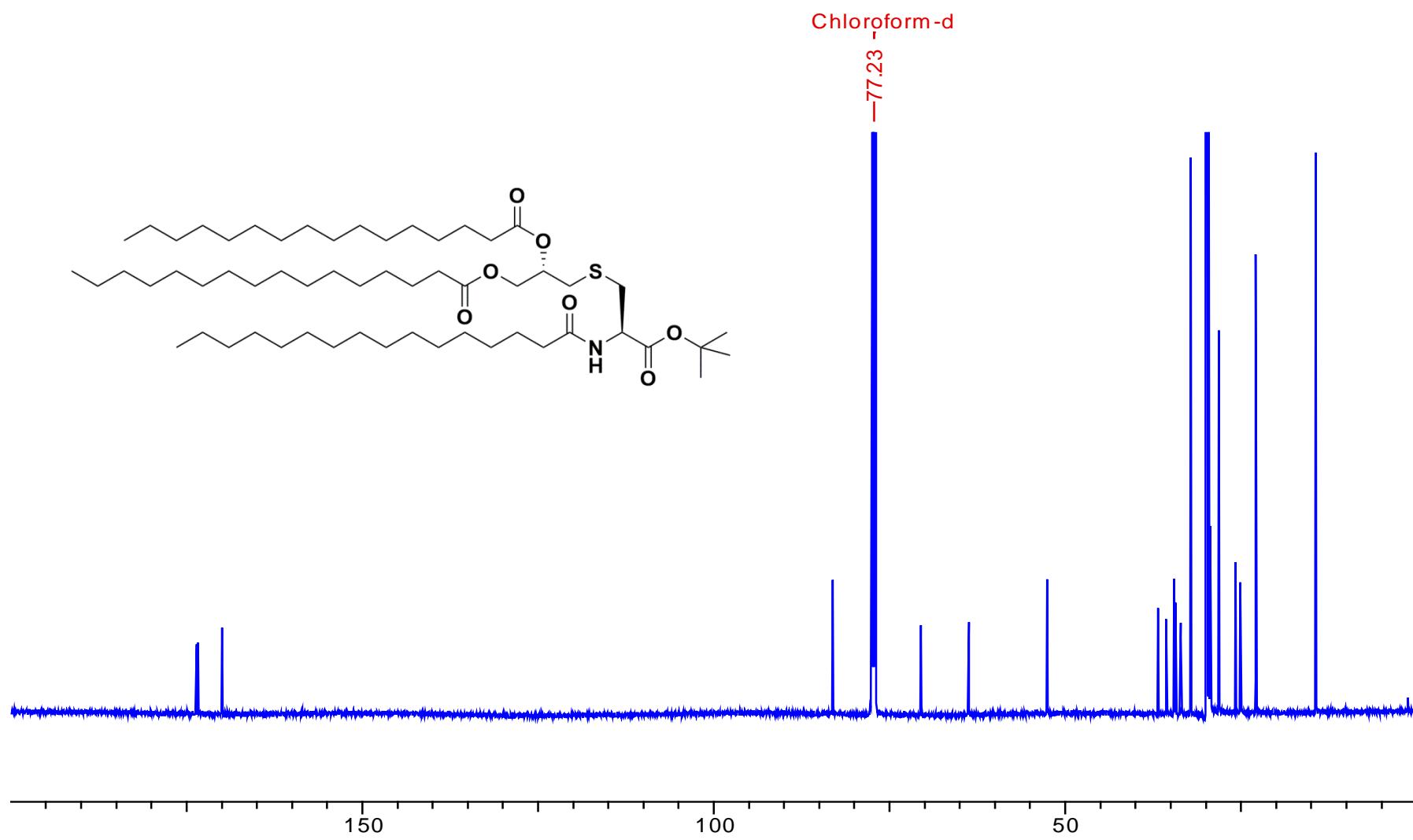
ESI-MS of Pam₃Cys tertiary butyl ester **2**.



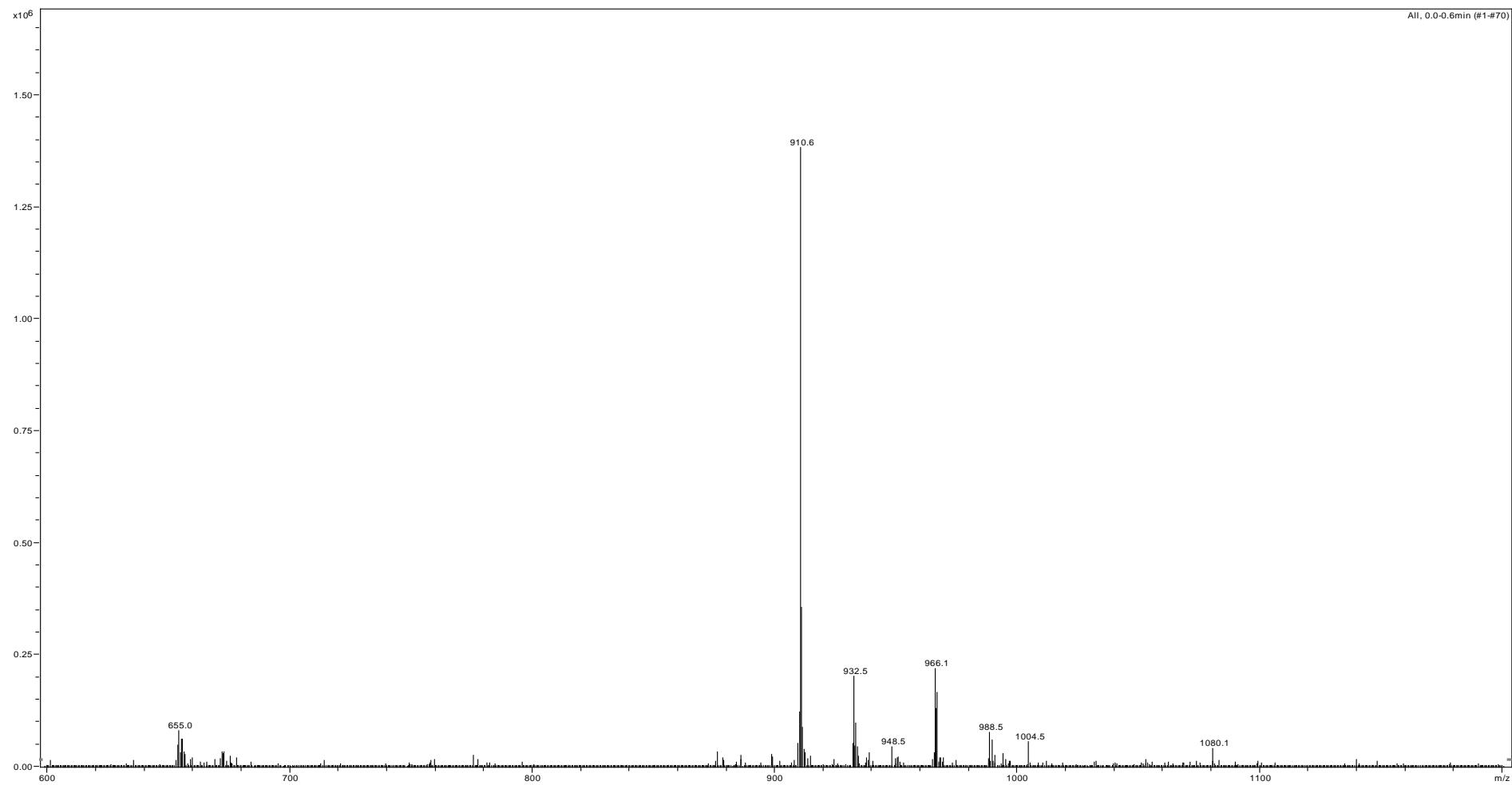
^1H NMR of Pam₃Cys tertiary butyl ester **2**.



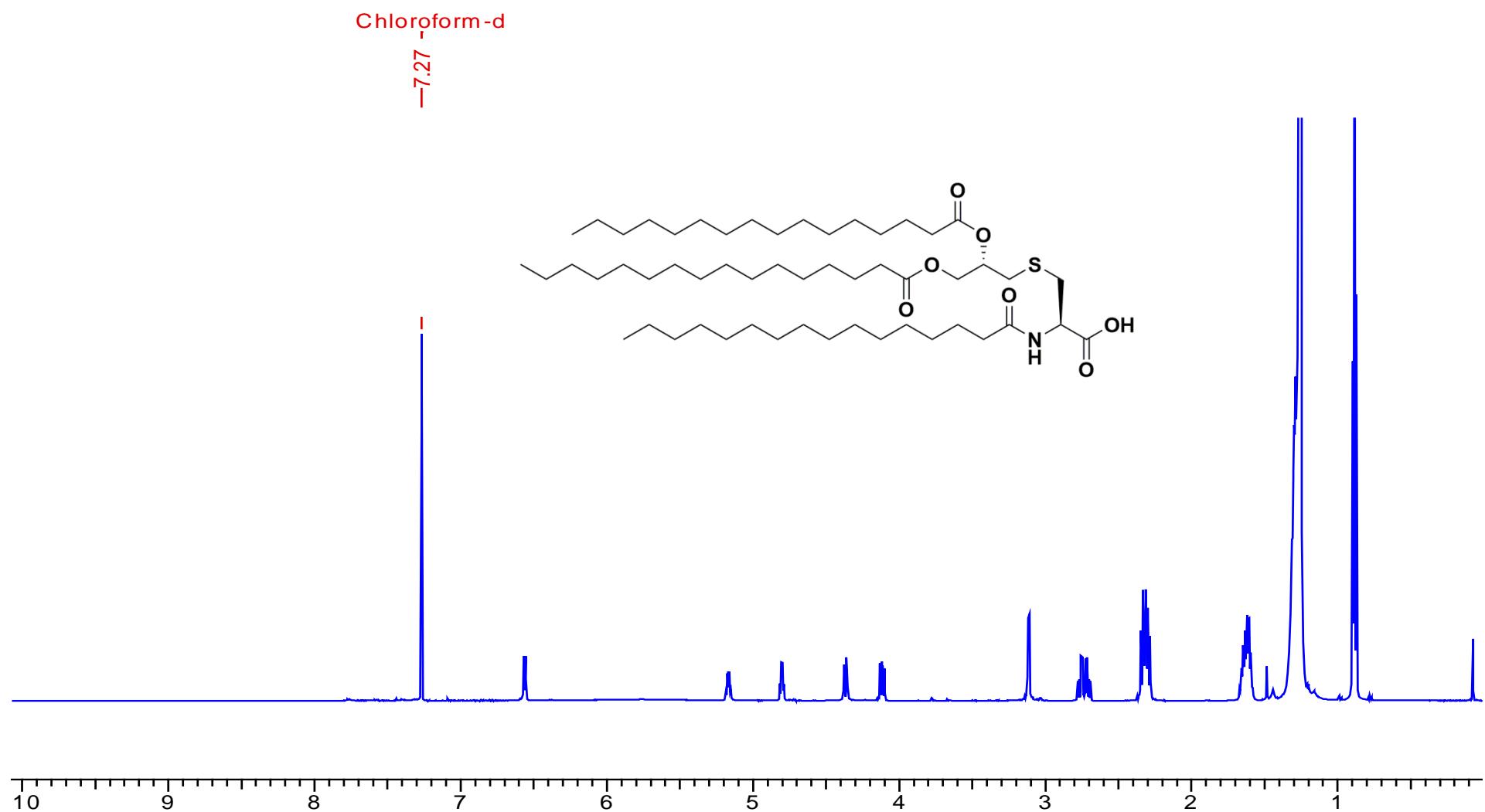
¹³C NMR of Pam₃Cys tertiary butyl ester **2**.



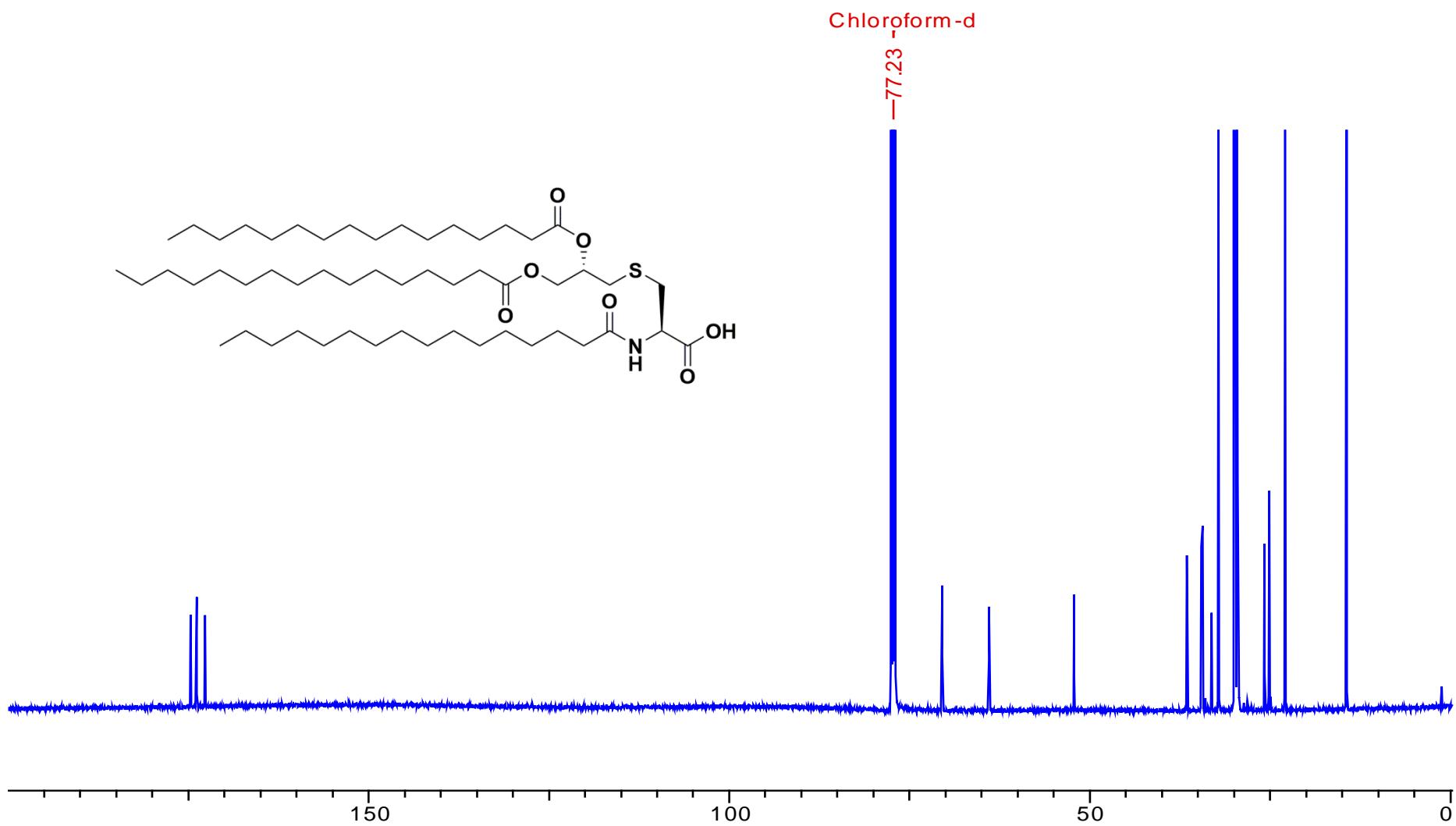
ESI-MS of Pam₃Cys-OH **3**.



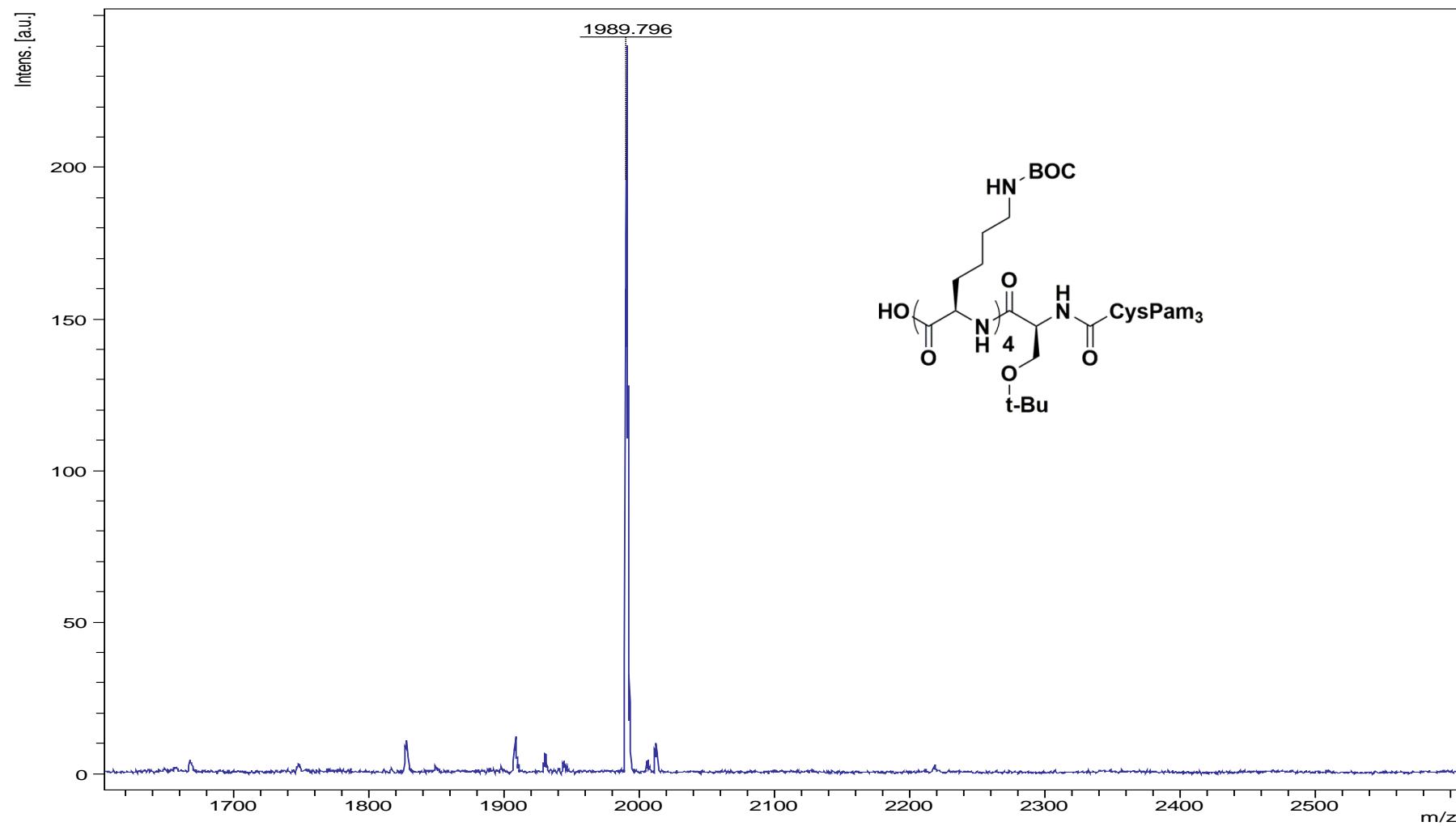
^1H NMR of Pam₃Cys-OH 3.



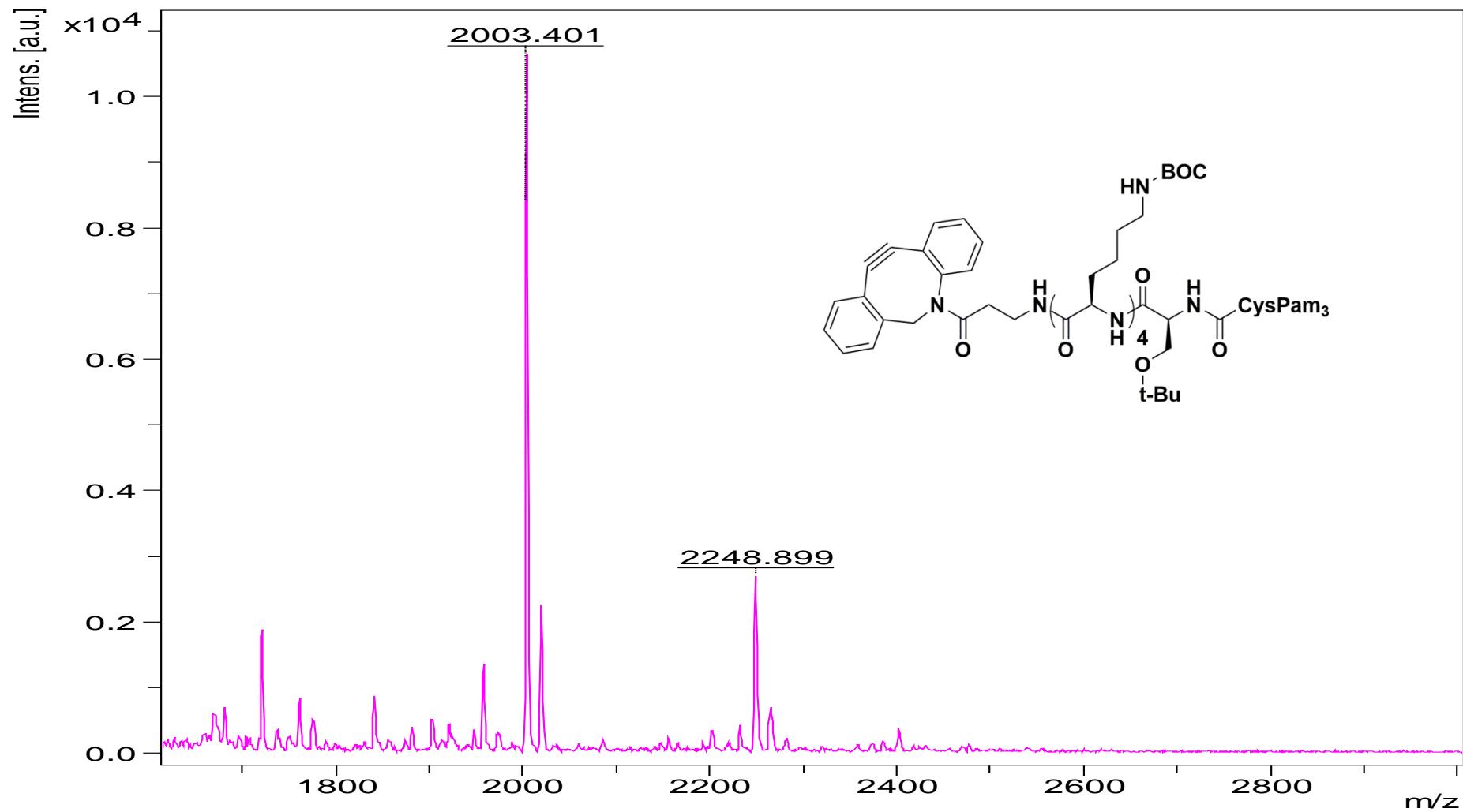
¹³C NMR of Pam₃Cys-OH **3**.



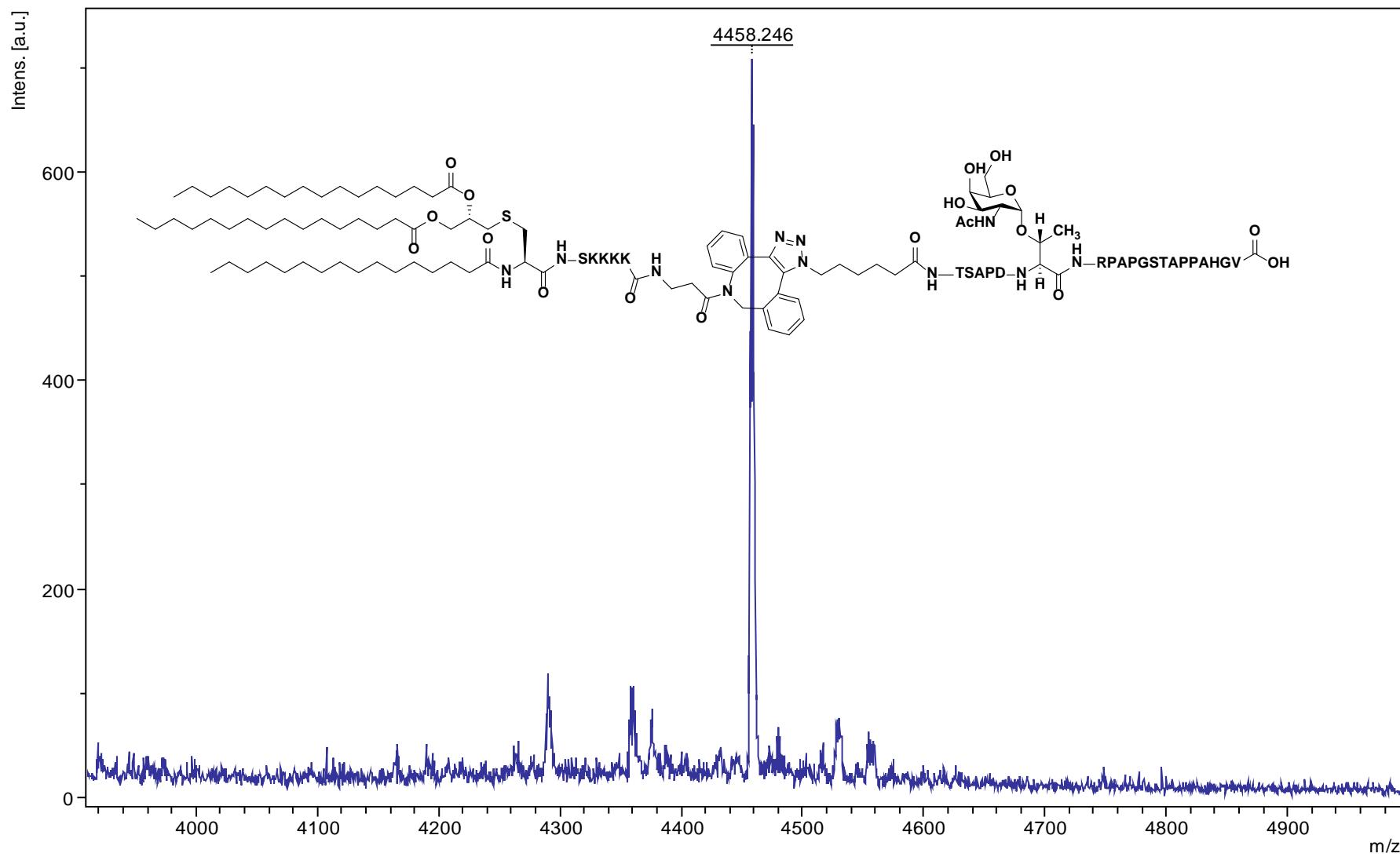
MALDI data of side-chain protected Pam₃CysSK₄ **5**.



MALDI data of side-chain protected Pam₃CysSK₄-DBCO conjugate **6**.



MALDI data of Pam₃CysSK₄-DBCO-MUC-1 VNTR-TACA conjugate **8** (protected SK₄ side-chain).



MALDI data of Pam₃CysSK₄-DBCO-MUC-1 VNTR-TACA conjugate **9**.

