An Approach to the Site-Selective Diversification of Apoptolidin A with Peptide-Based Catalysts

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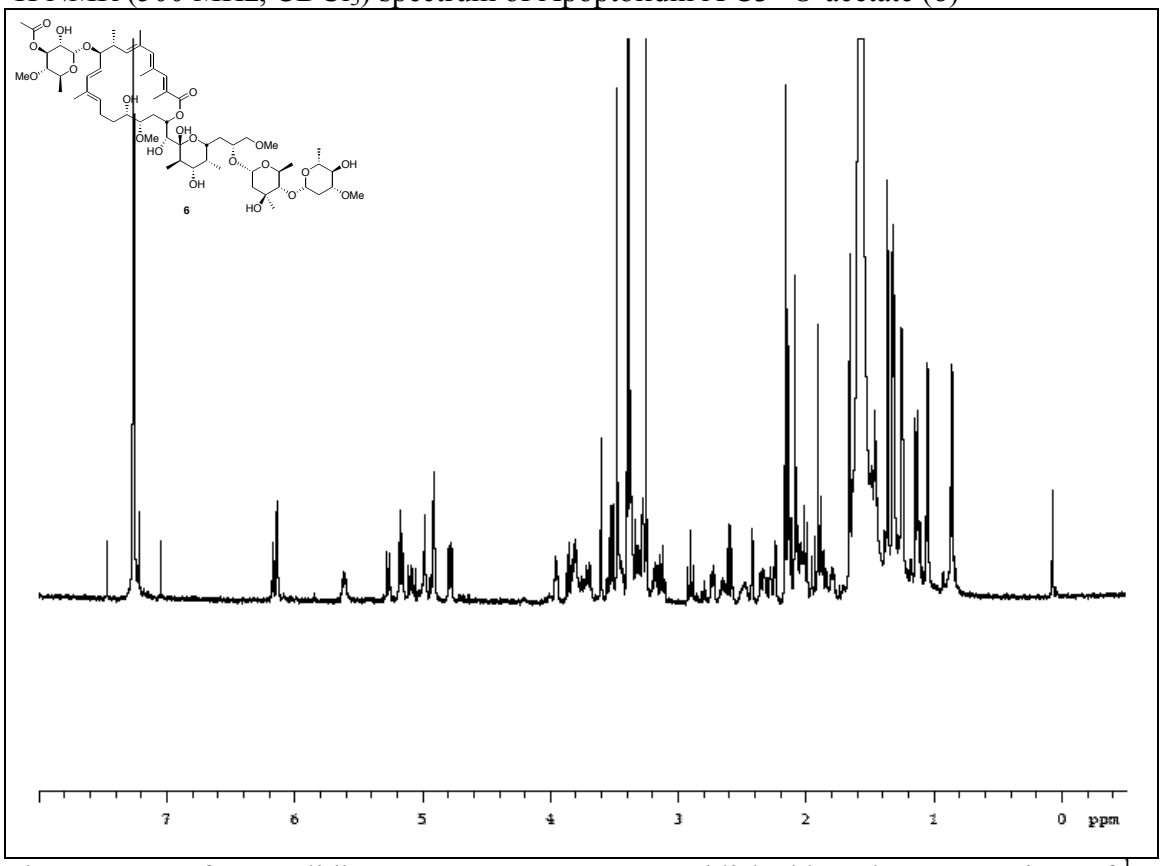
Supporting Information

S1 ^{1}H NMR (500 MHz, $CDCl_3$) spectrum of Apoptolidin A C3'-O-acetate (**6**)
S2-S3 ^{1}H NMR (500 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-acetate (**12**)
S4 ^{1}H-^{1}H COSY (500 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-acetate (**12**)
S5-S6 ^{1}H NMR (600 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-C20-O-C4'''-O-trisacetate (**13**)
S7 ^{1}H-^{1}H COSY (600 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-C20-O-C4'''-O-trisacetate (**13**)
S7 Tandem Mass Spectrometry Data for Apoptolidin A C2'-O-C20-O-C4'''-O-trisacetate (**13**)
S8-S9 ^{1}H NMR (600 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-C3'-O-C20-O-trisacetate (**14**)
S10 ^{1}H-^{1}H COSY (600 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-C3'-O-C20-O-trisacetate (**14**)
S10 Tandem Mass Spectrometry Data for Apoptolidin A C2'-O-C3'-O-C20-O-trisacetate (**14**)

^{1}H NMR (500 MHz, $CDCl_3$) spectrum of Apoptolidin A C3'-O-acetate (**6**)



The structure of apoptolidin A C3'-O-acetate was established based on comparison of ^{1}H NMR to published data.[1]

[1] Wender, P. A.; Jankowski, O. D.; Tabet, E. A.; Seto, H. *Org. Lett.* **2003**, *5*, 487.

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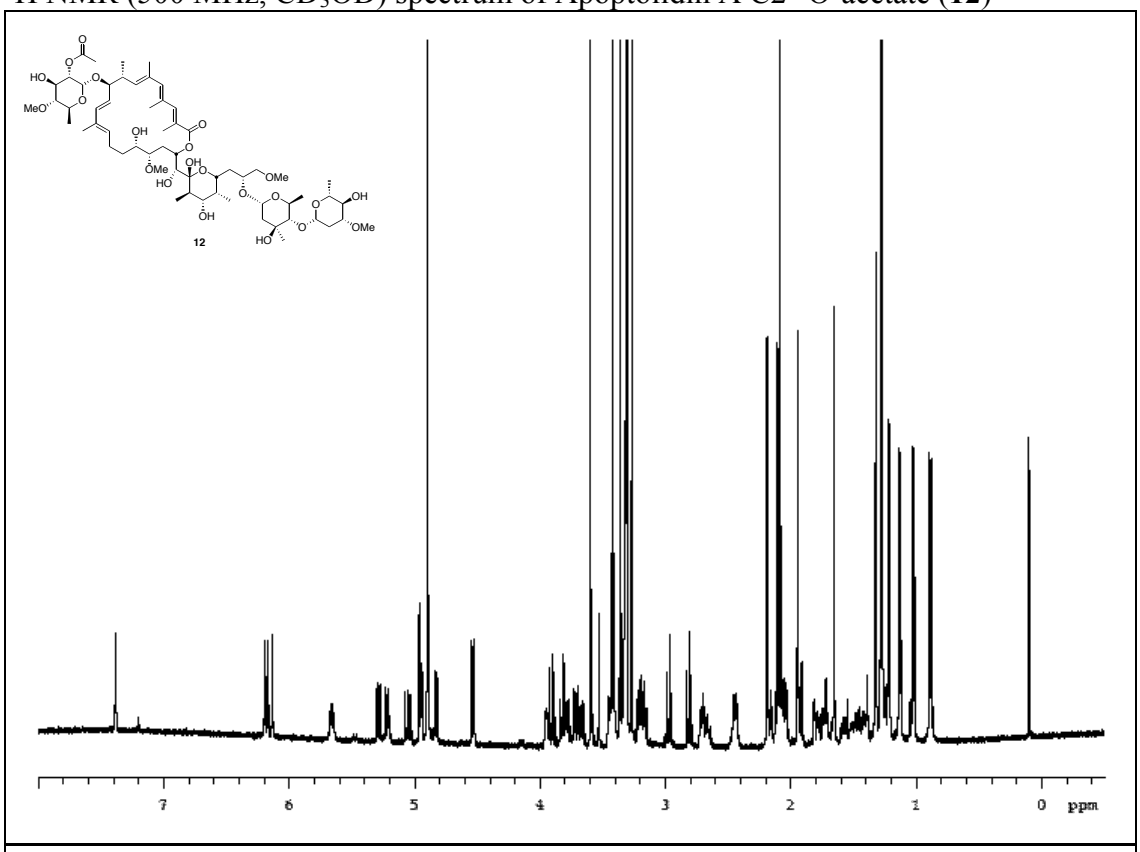

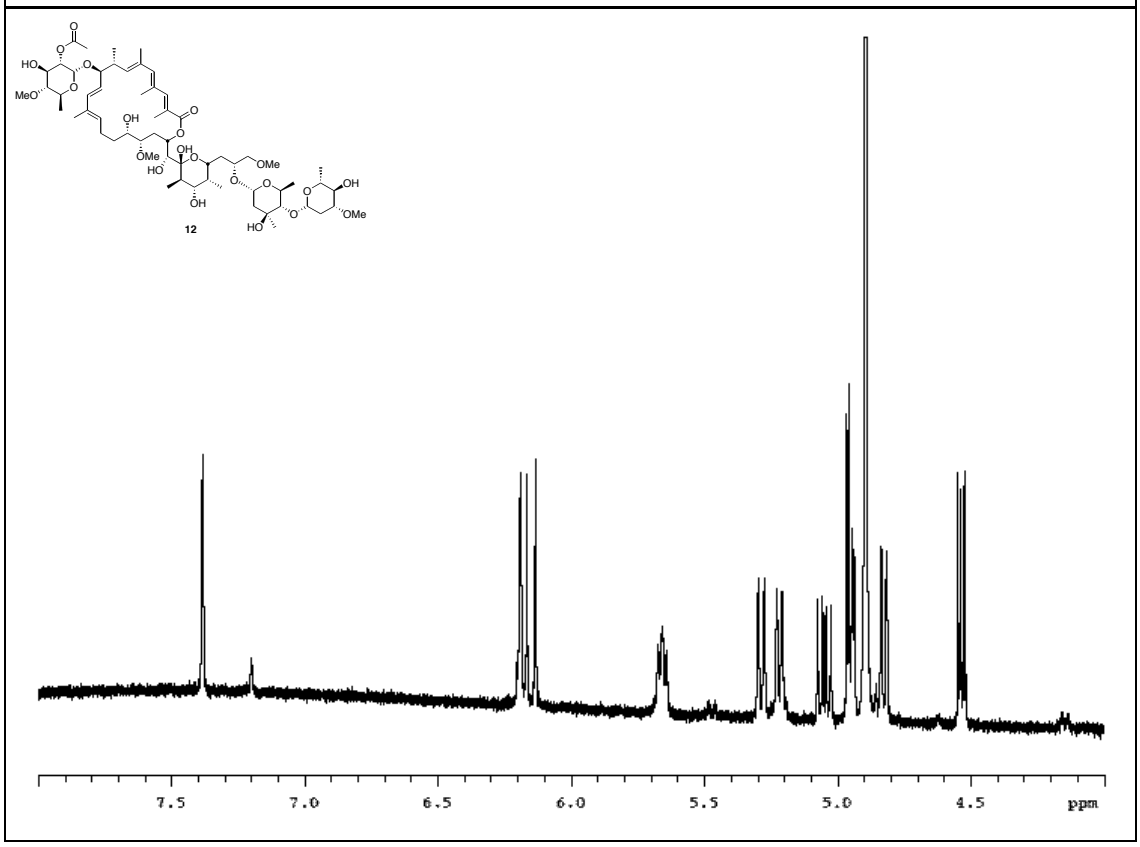

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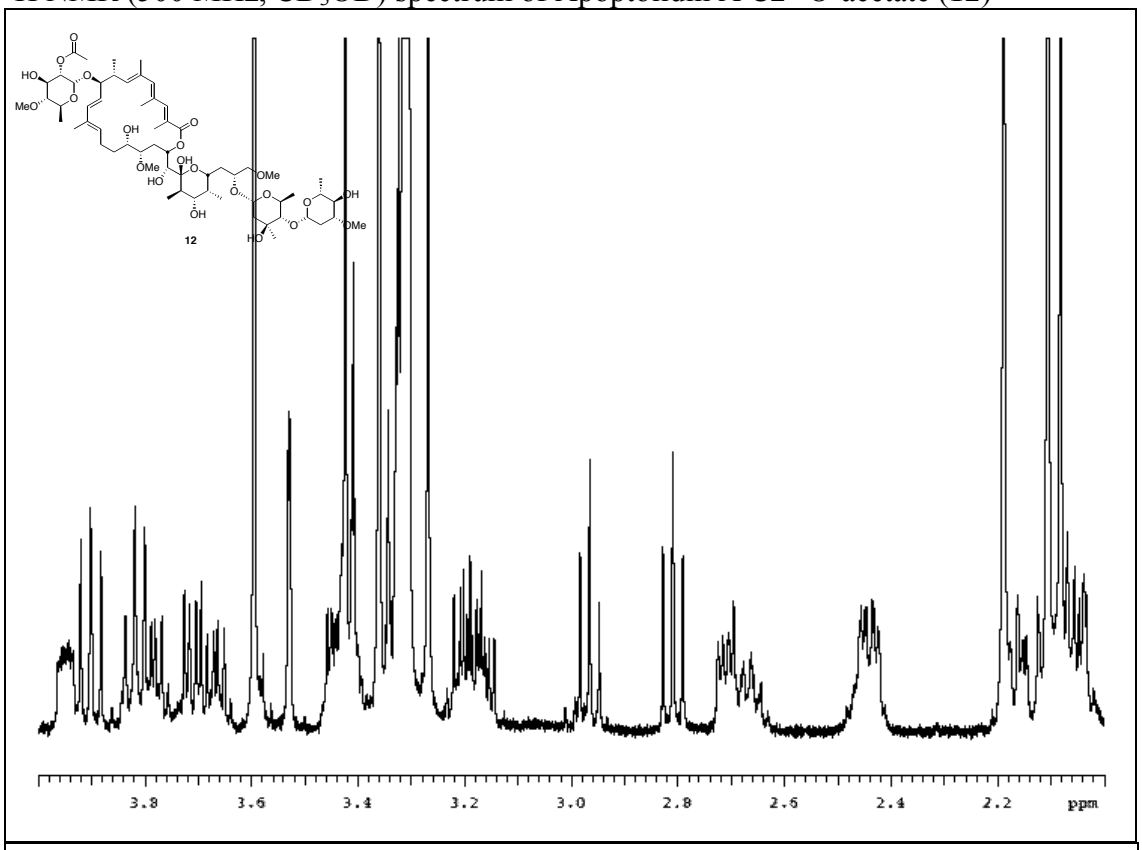

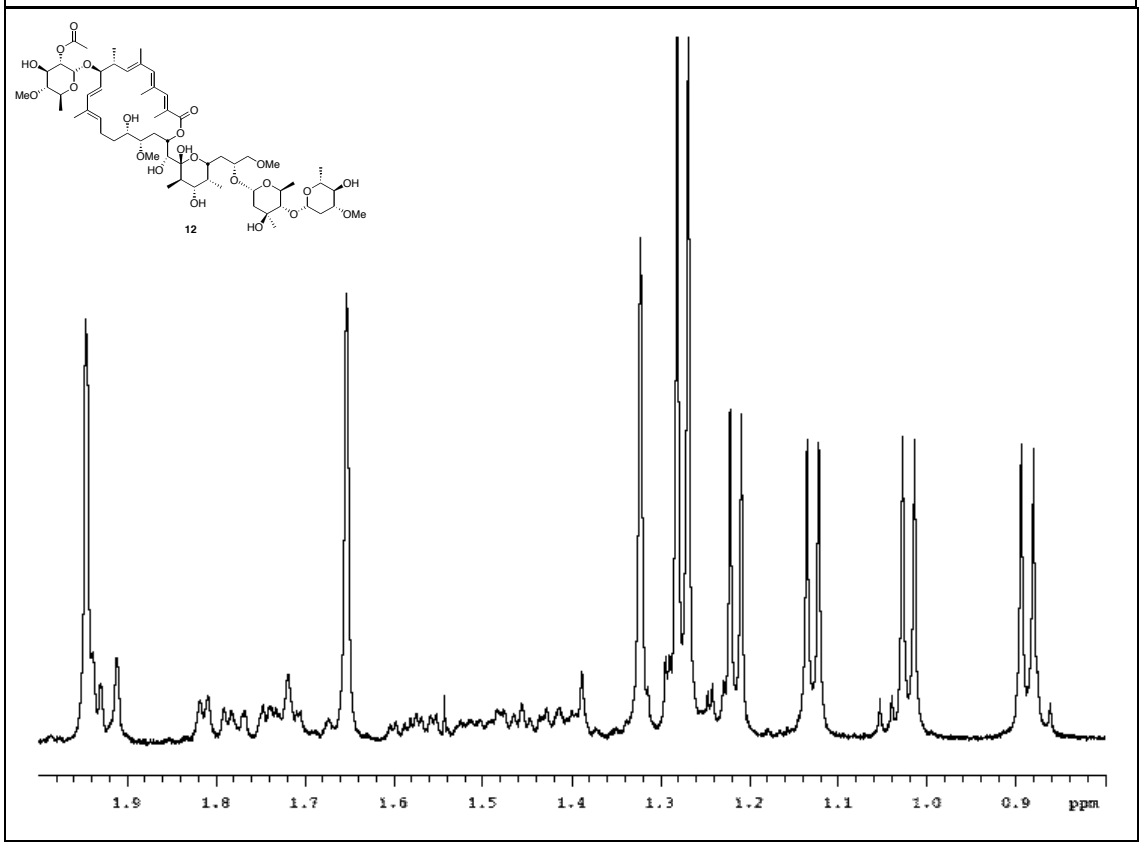

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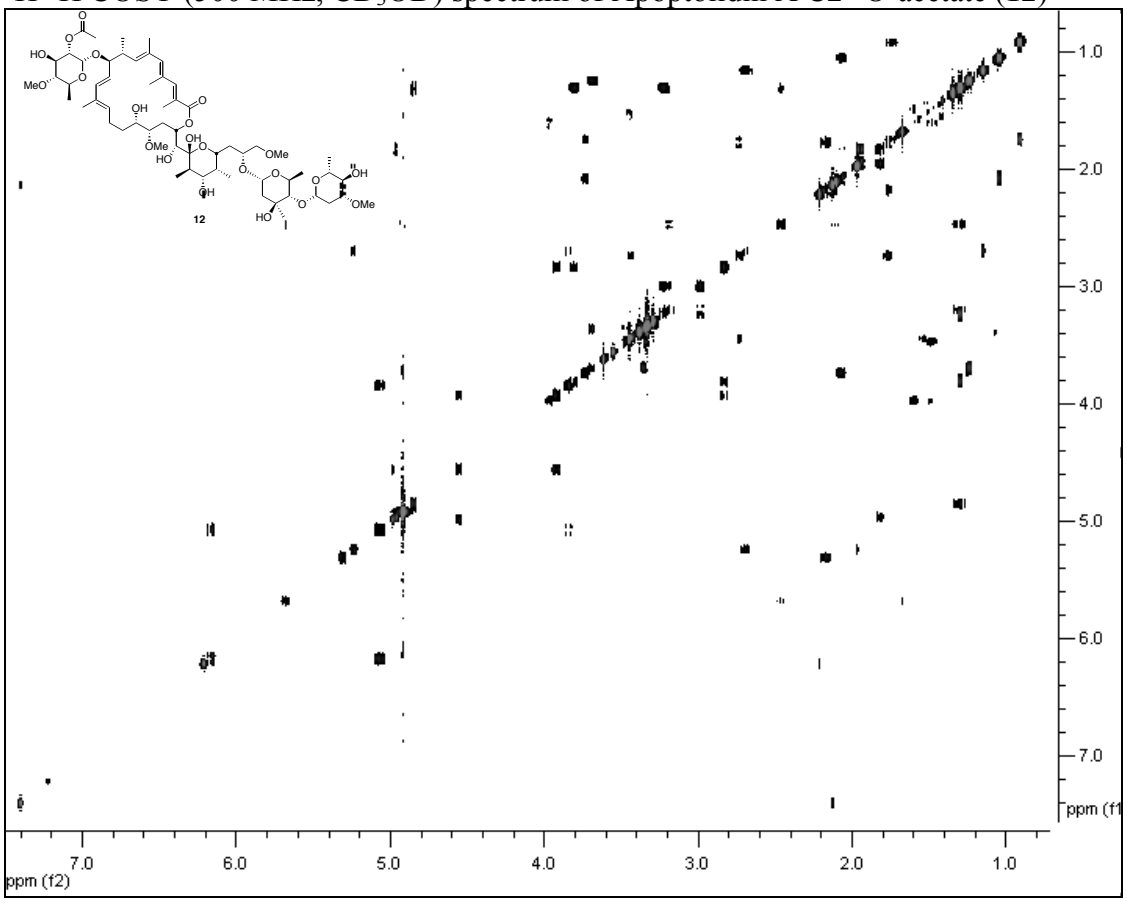
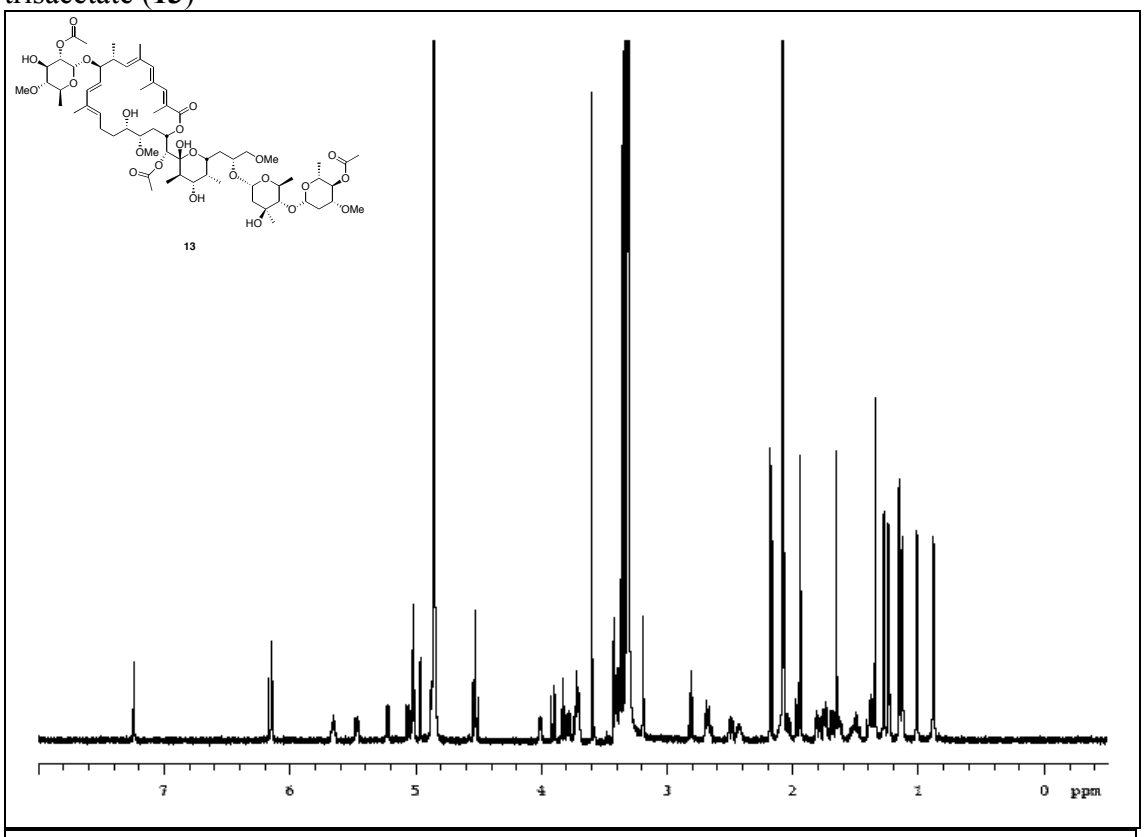
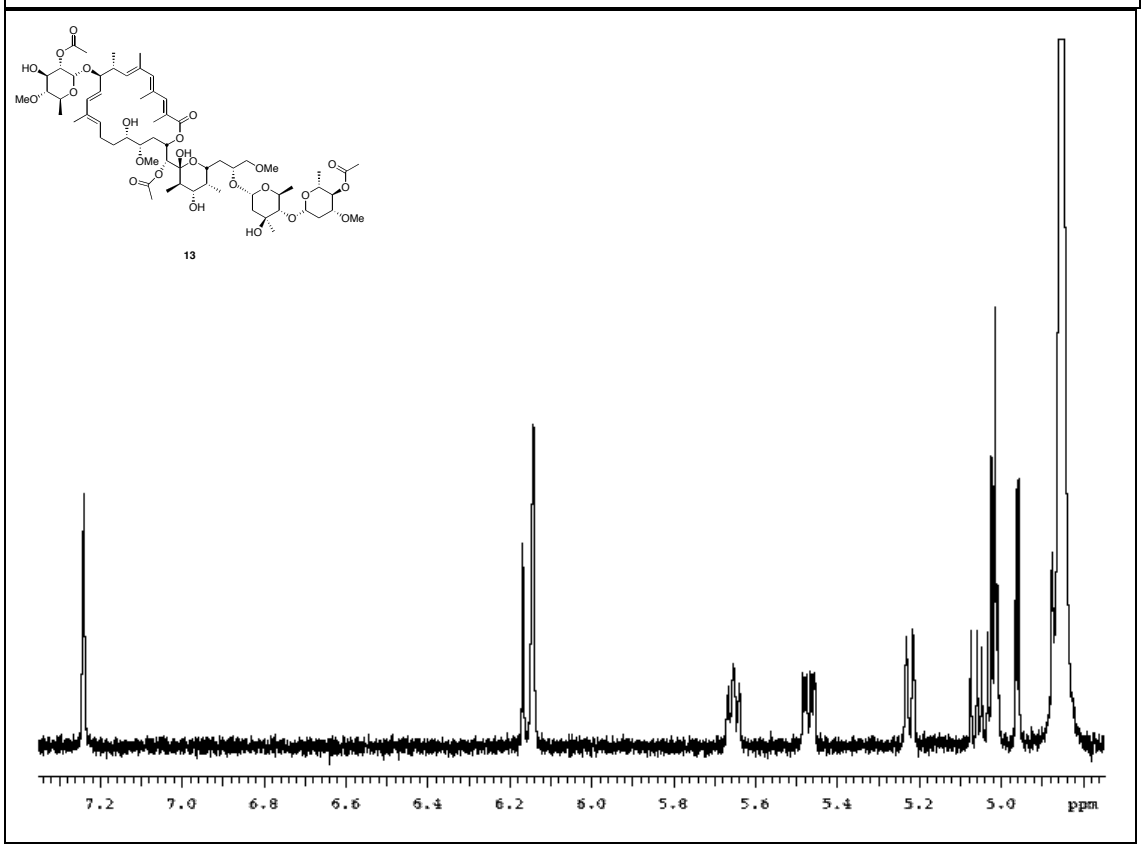


^{1}H NMR (600 MHz, CD_3OD) spectrum of Apoptolidin A C2'-O-C20-O-C4'''-O-trisacetate (**13**)





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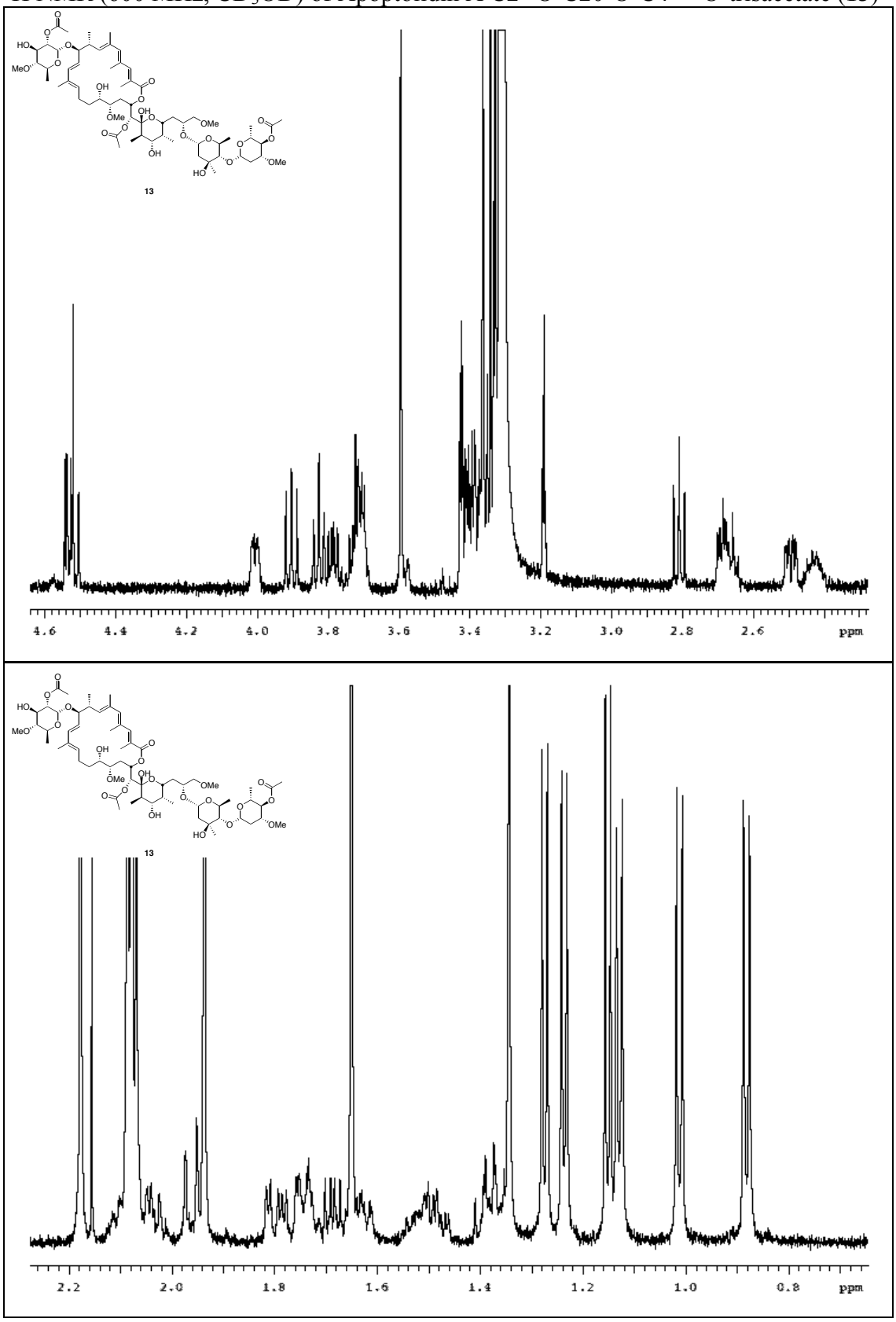

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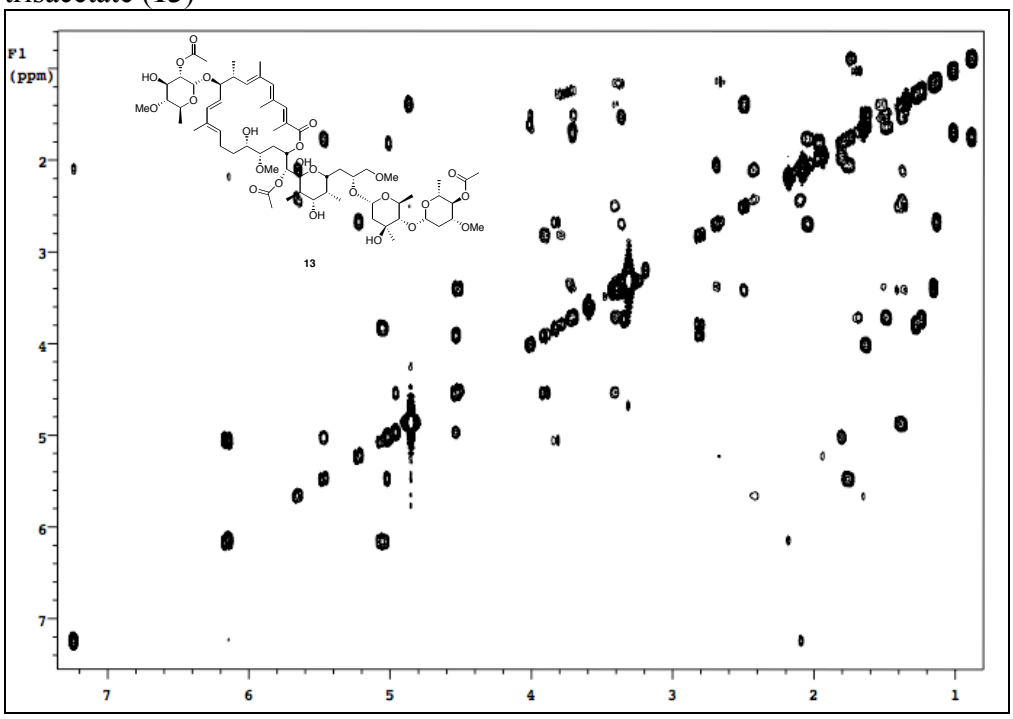
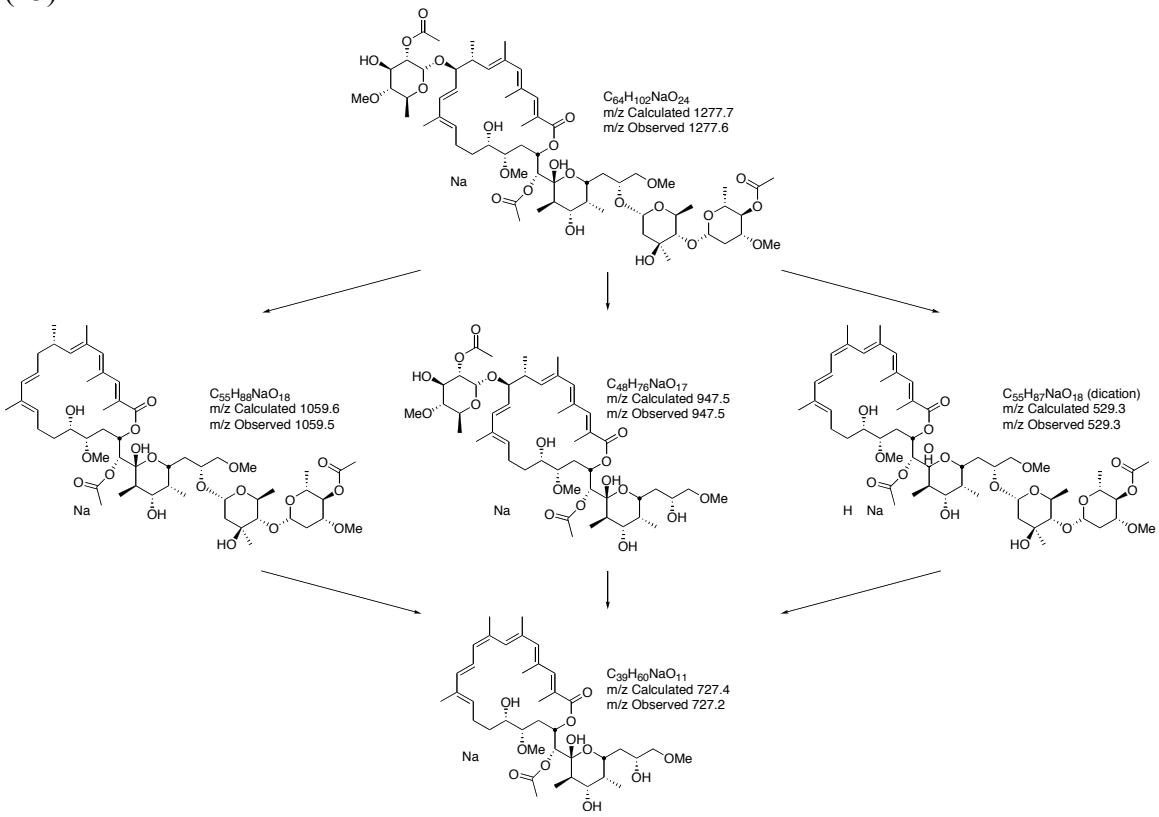


Tandem Mass Spectrometry Data for Apoptolidin A C2'-O-C20-O-C4'''-O-trisacetate (**13**)



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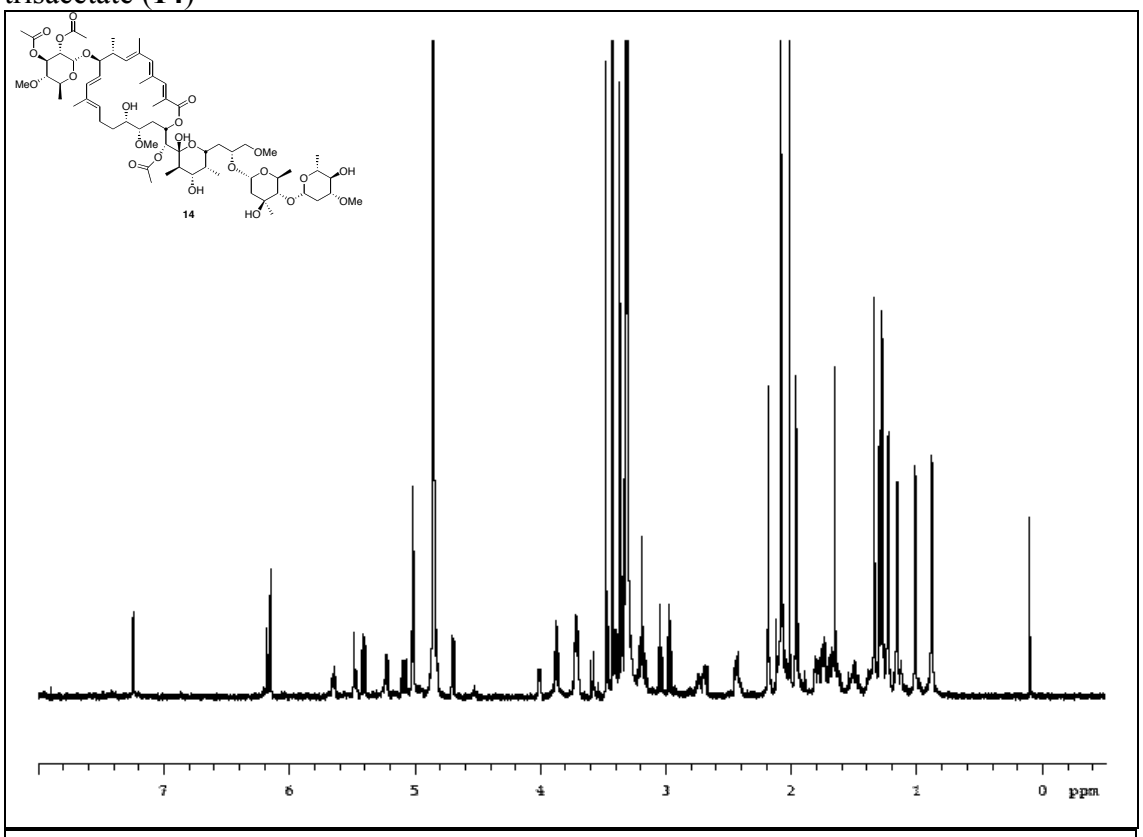

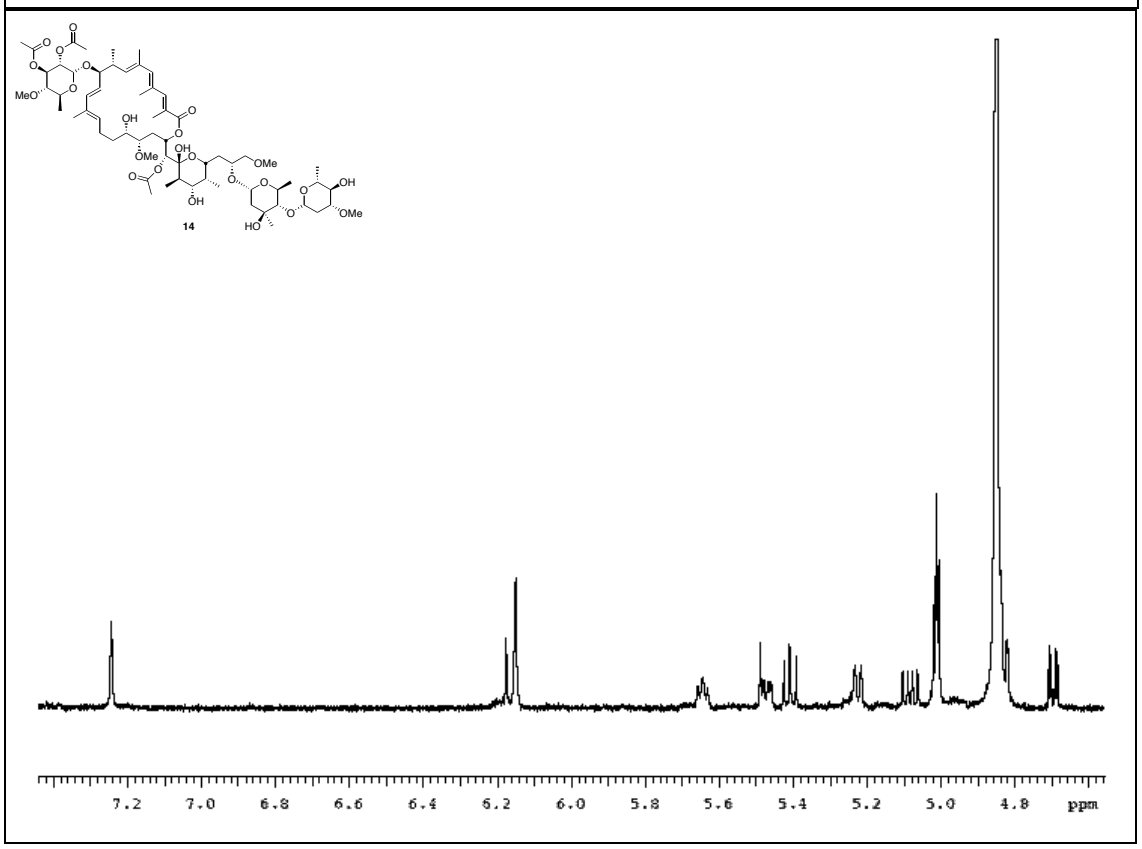

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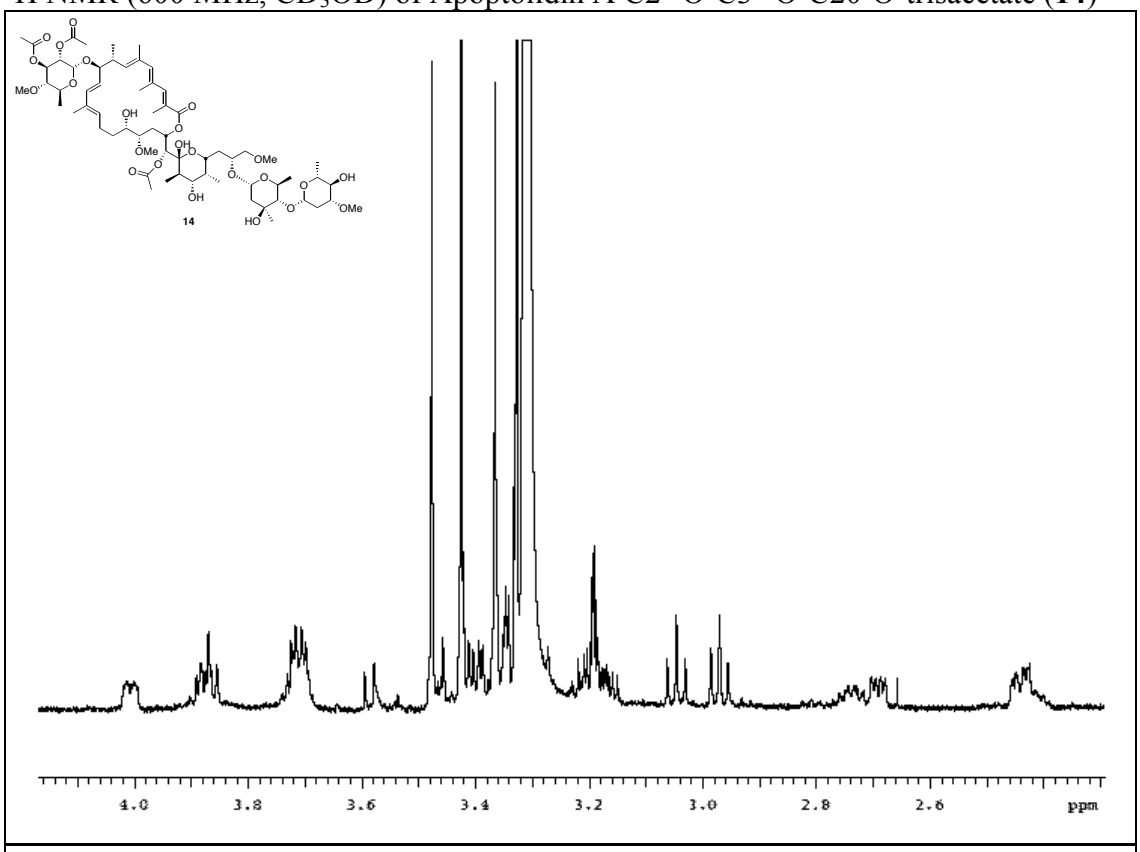

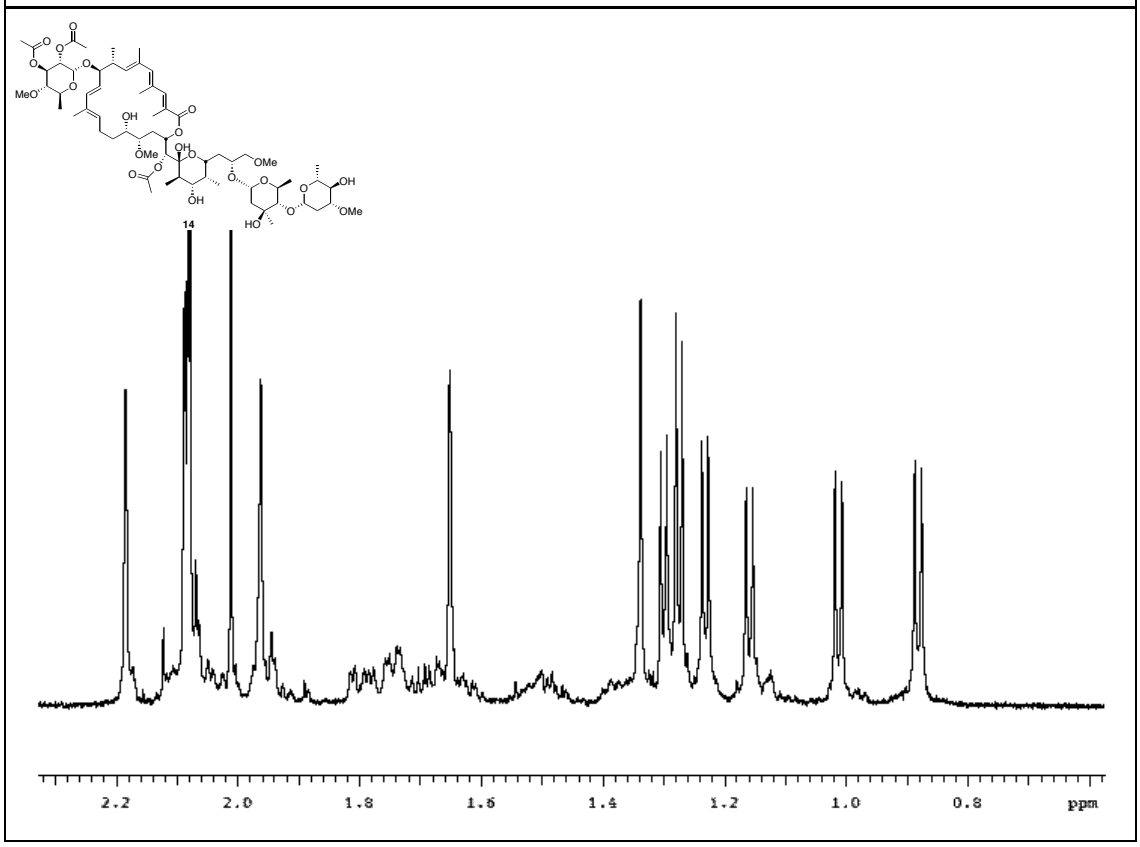

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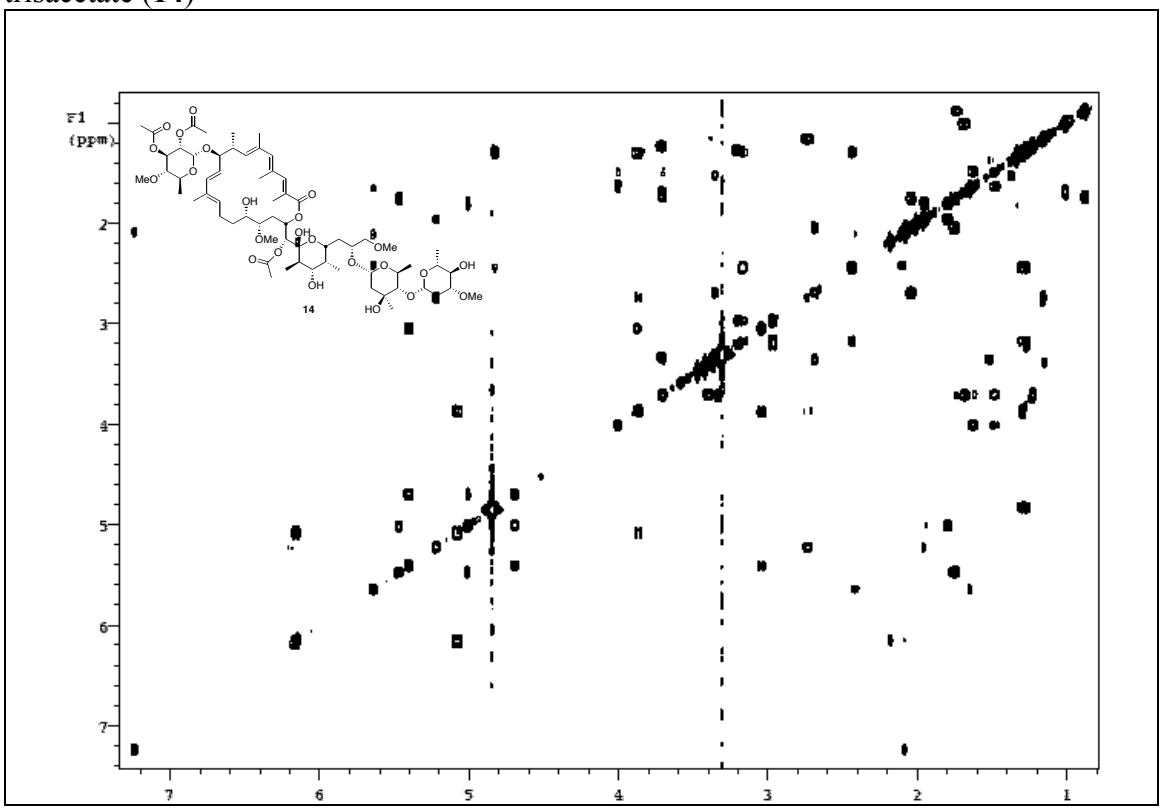
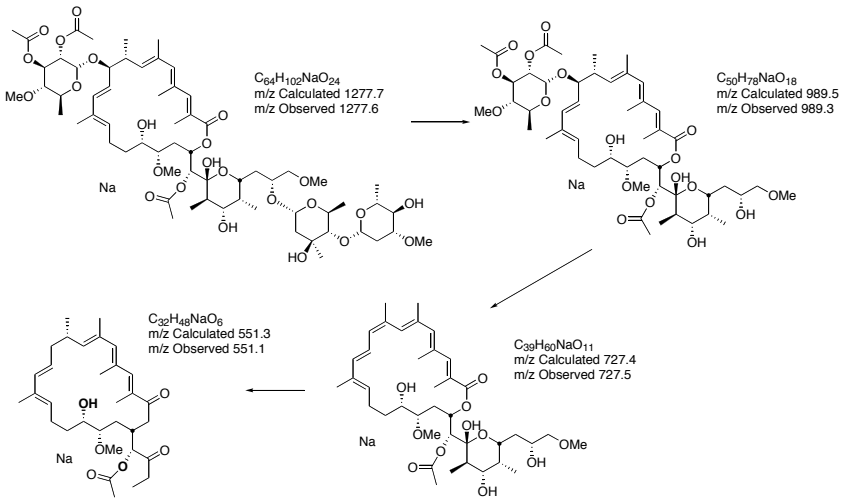
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