

***N*→*O*-Acyl shift in Fmoc-based synthesis of phosphopeptides**

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Hendrik_Peptid_5pmol#811-851 RT: 24.68-25.87 AV: 41 NL: 7.86E3
T: FTMS + c NSI Full ms [300.00-1000.00]

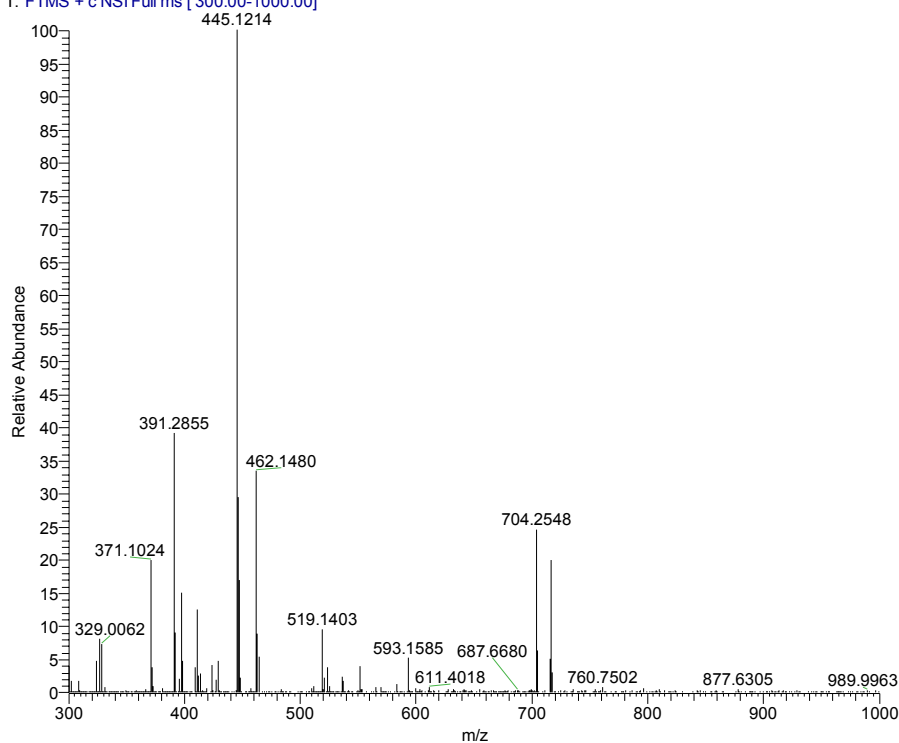


Fig. S1a Mass-spectrum of peptide **1b** performed on Finnigan LTQ-FT, ThermoElectron (Bremen), Nano Electrospray, positive ionisation.

Hendrik_Peptid_5pmol#915-960 RT: 27.77-29.05 AV: 46 NL: 7.31E3
T: FTMS + c NSI Full ms [300.00-1000.00]

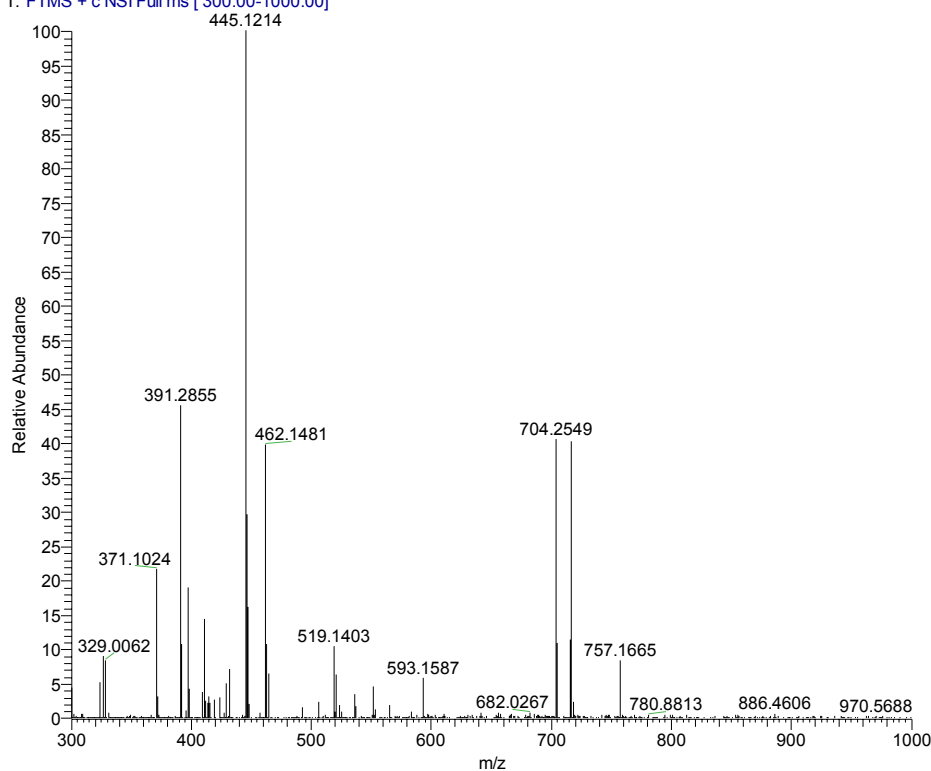


Fig. S1b Mass-spectrum of peptide **1a**.

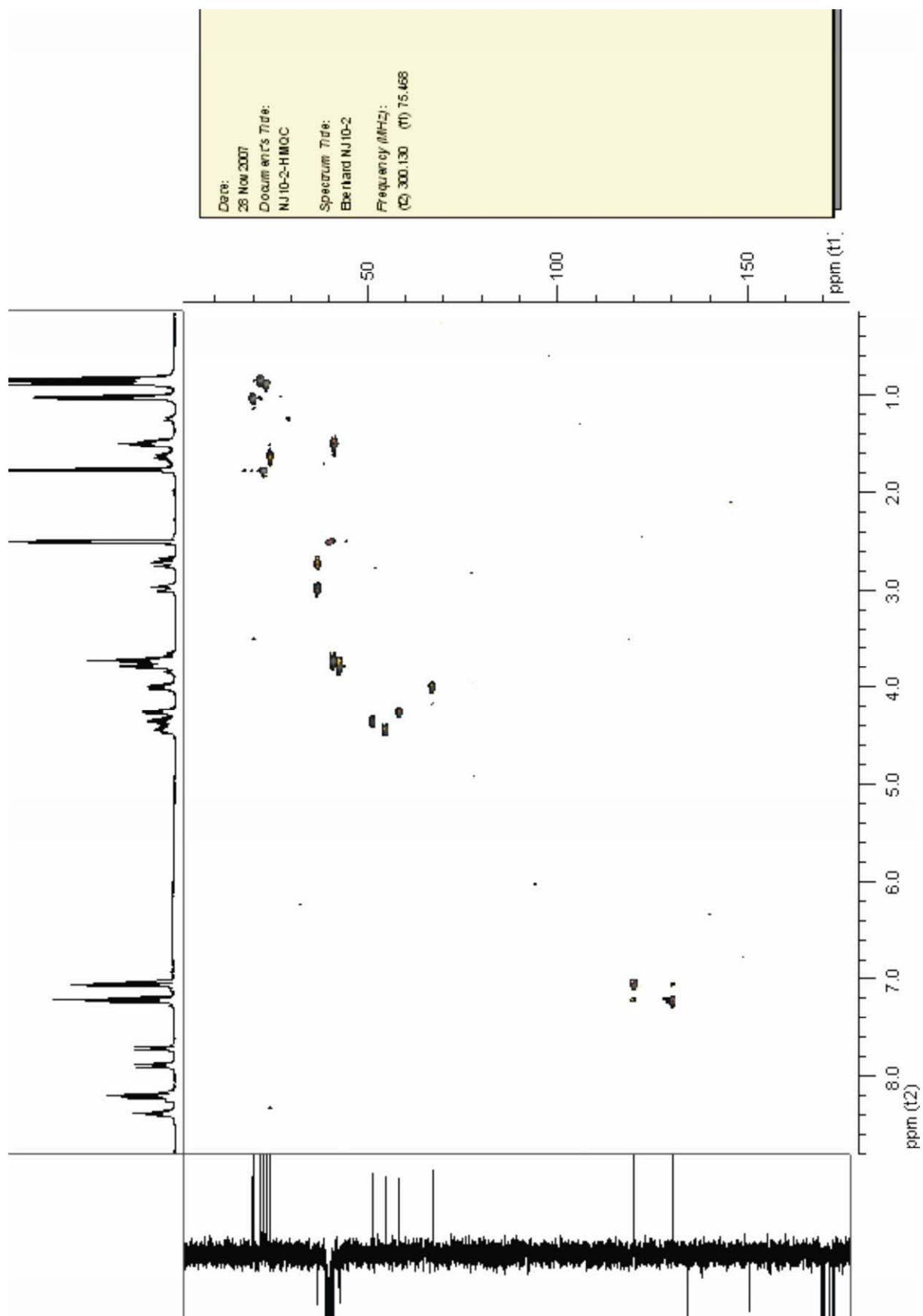


Fig. S2a HMQC of peptide 4a.

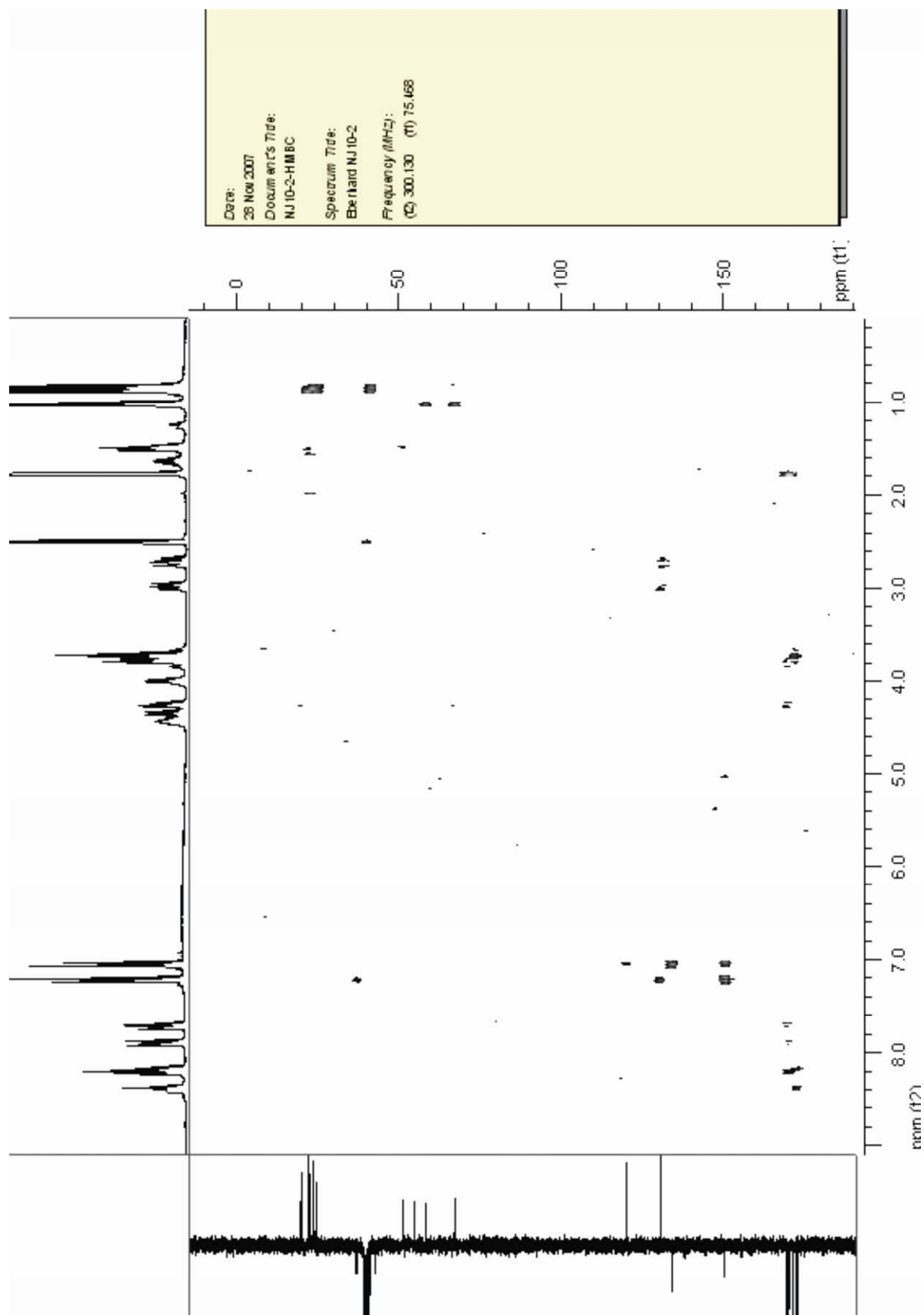


Fig. S2b HMBC of peptide 4a.

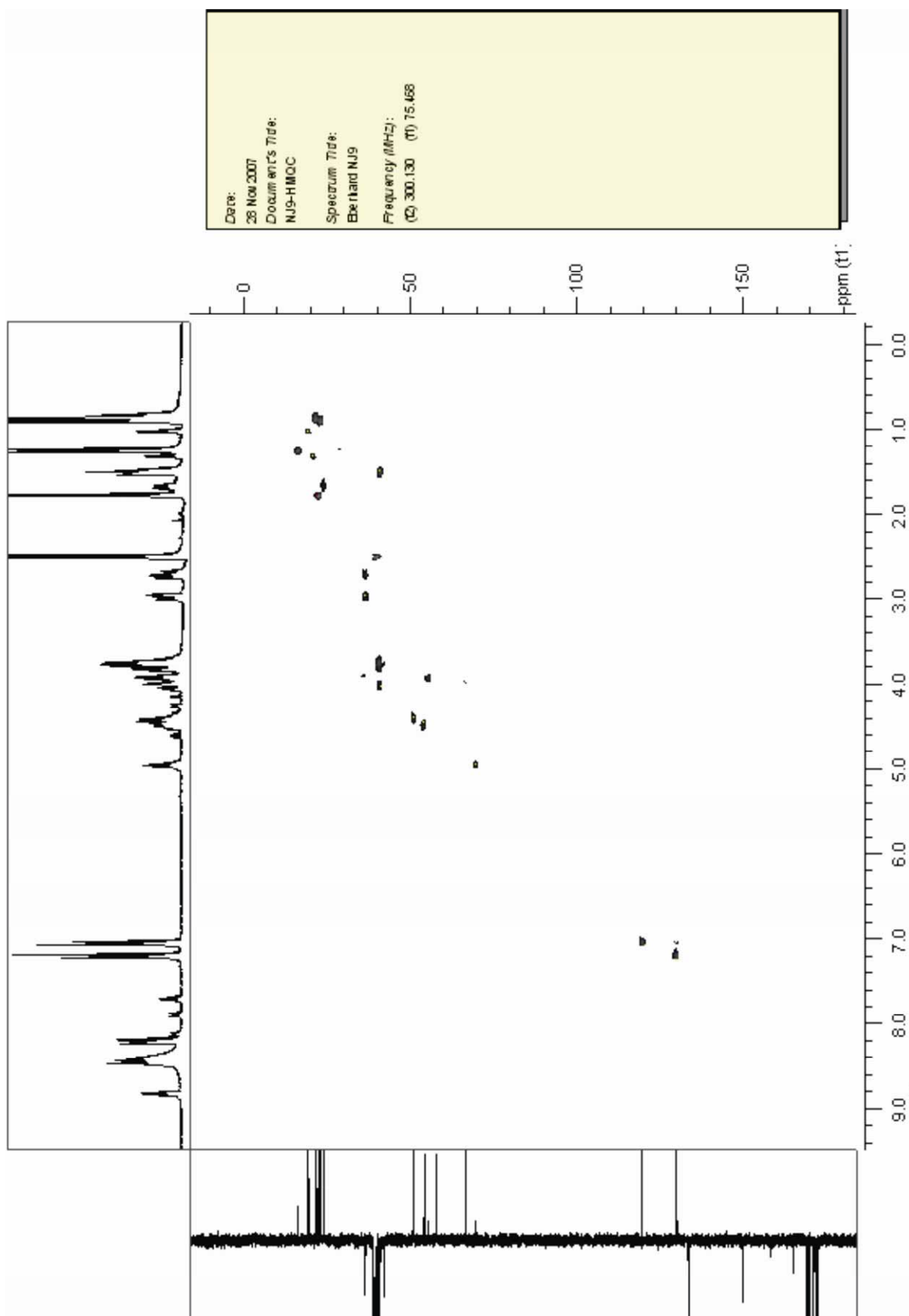


Fig. S2c HMQC of peptide **4b**.

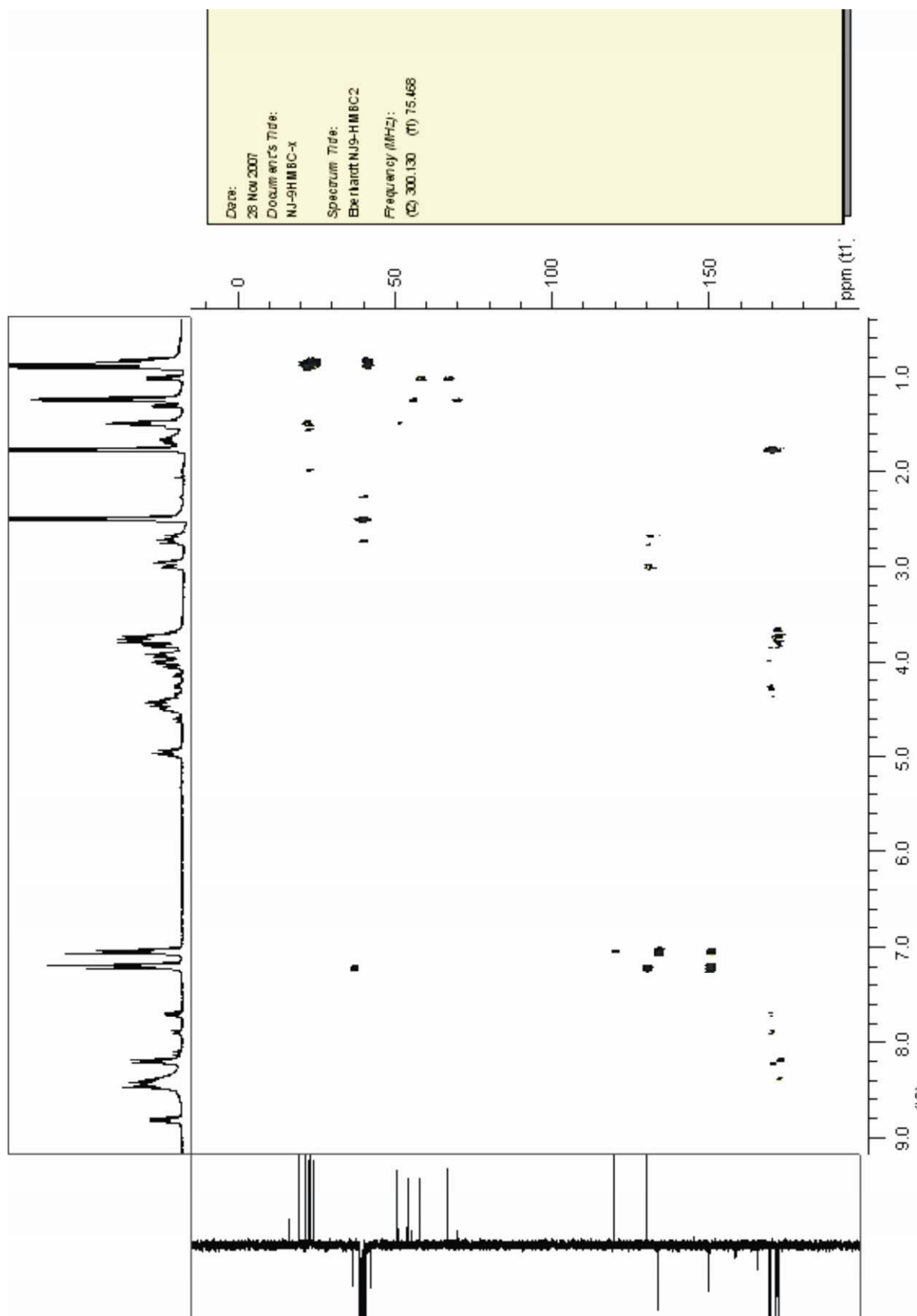


Fig. S2d HMBC of depsipeptide 4b.

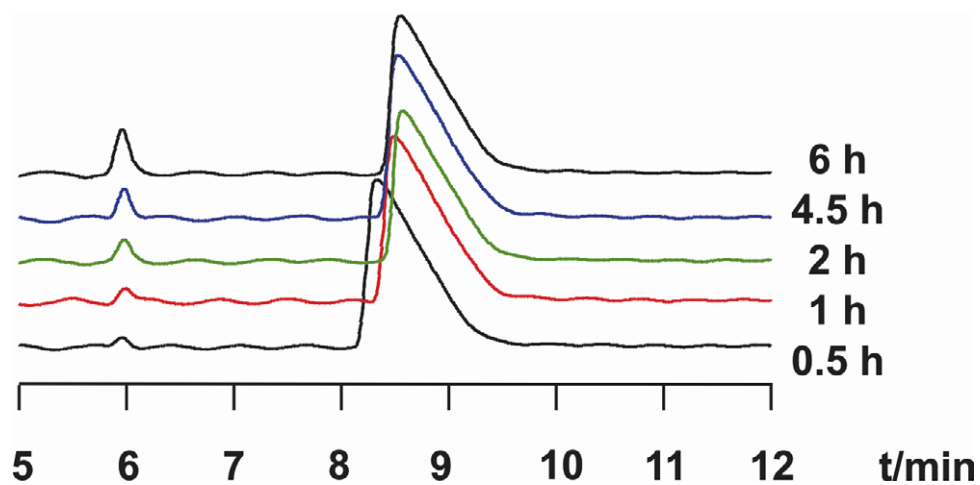


Fig. S3a HPLC-traces of depsipeptide formation of peptide 8.

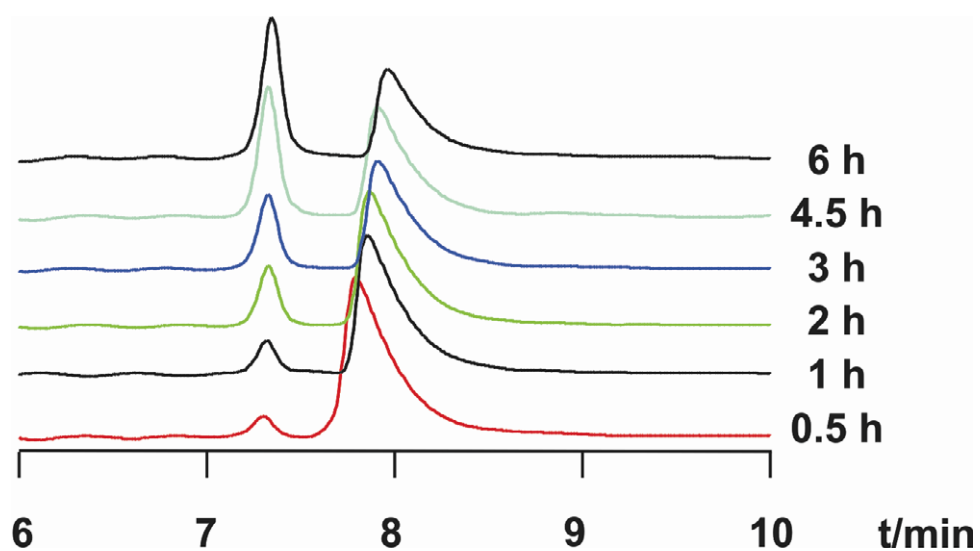


Fig. S3b HPLC-traces of depsipeptide formation of peptide 9.

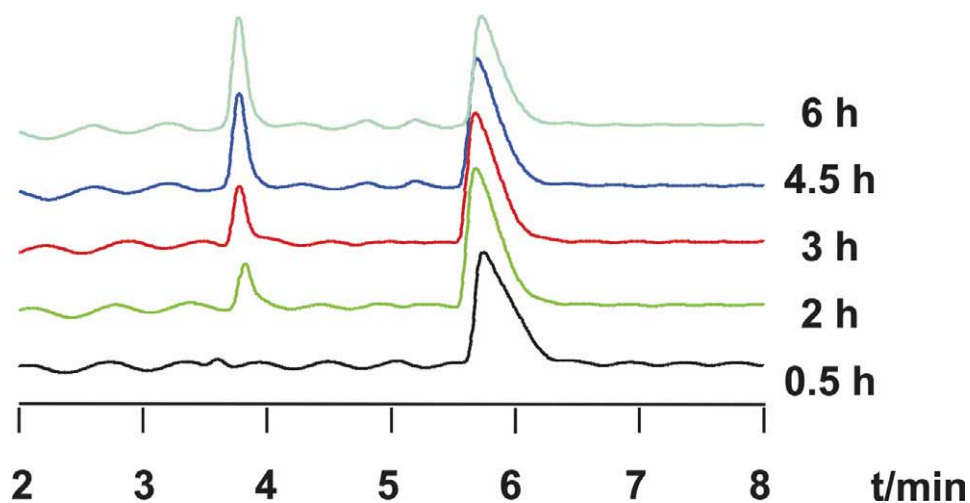


Fig. S3c HPLC-traces of depsipeptide formation of peptide 10.

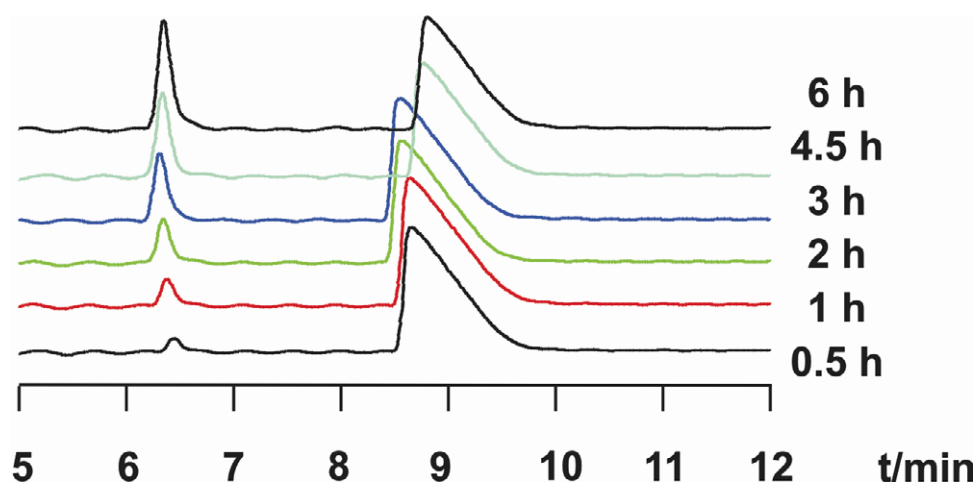


Fig. S3d HPLC-traces of depsipeptide formation of peptide 11.

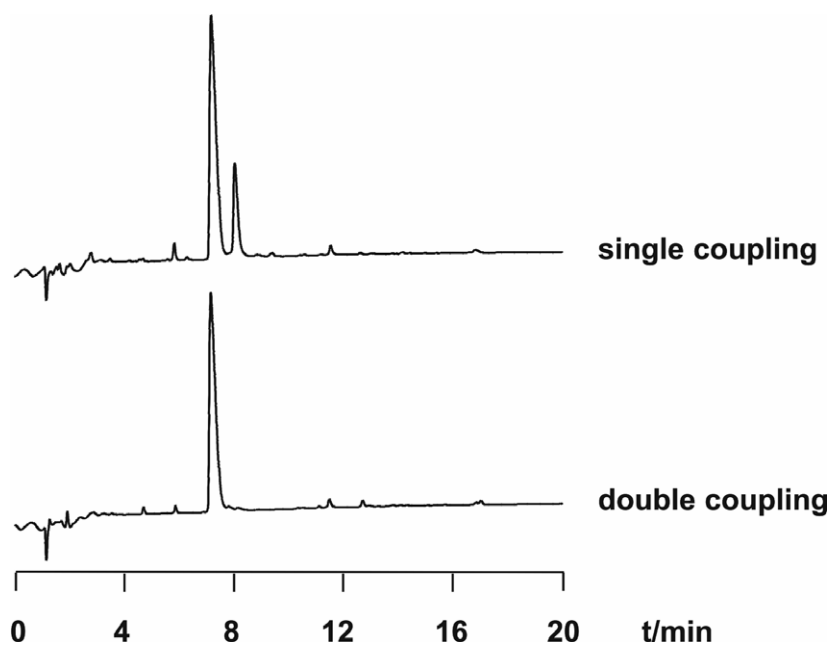


Fig. S4 HPLC-traces of peptide **12a** synthesised with building block **15**.