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Supporting Information

for

Synthesis of the biologically important dideuterium-labelled adenosine triphosphate analogue Apppl(d_2)

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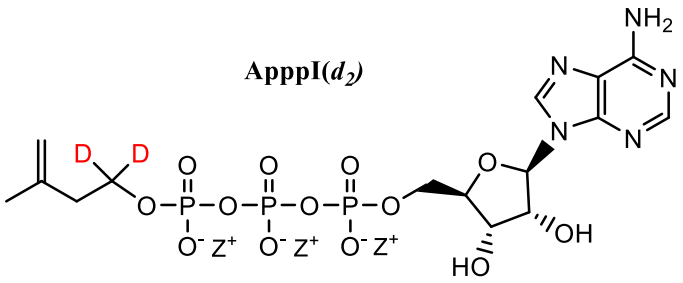
^{1}H, ^{13}C, and ^{31}P NMR spectra as well as HPCCC chromatogram of Apppl(d_2) purification

Table of contents



Structure of ApppI(d_2)

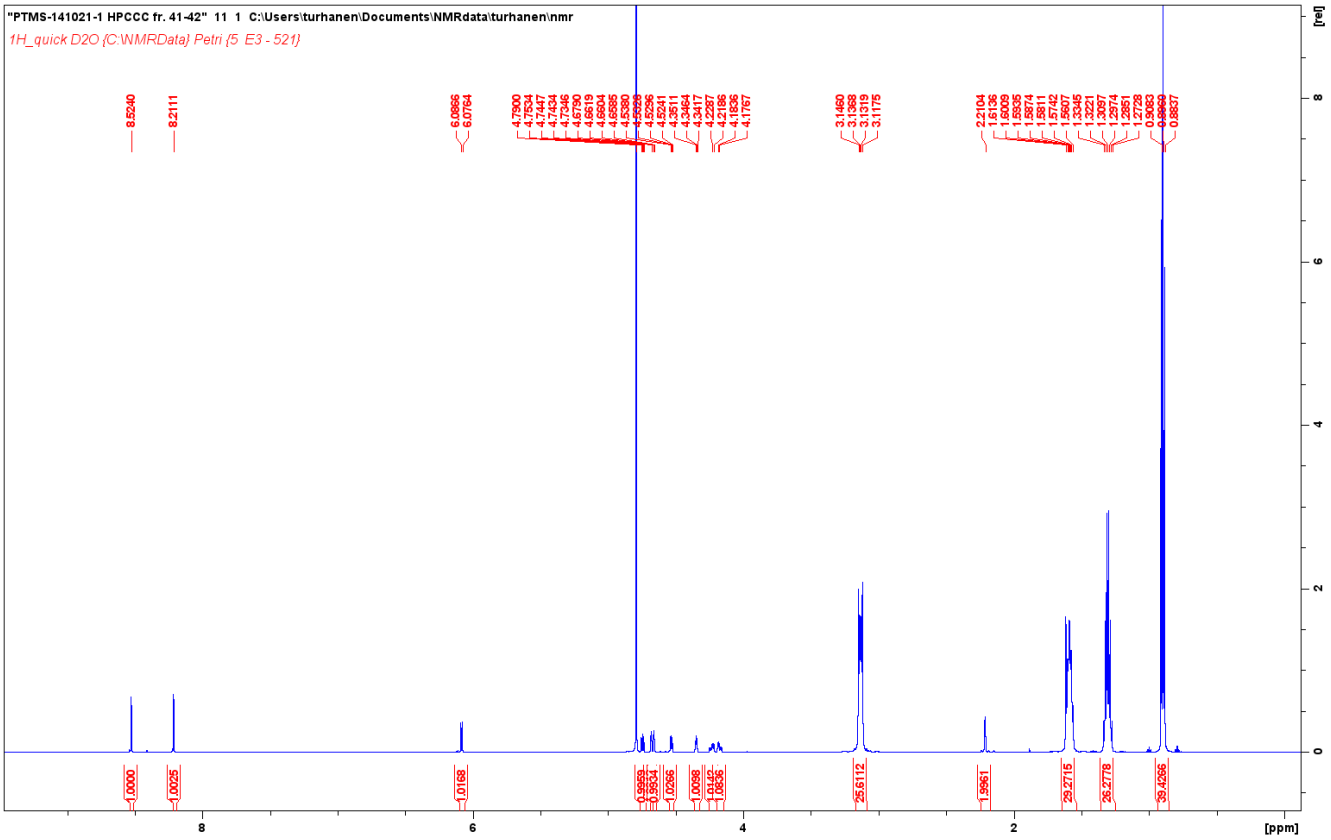


Figure S1: ^{1}H NMR spectrum of ApppI(d_2)·3.25 TBA salt.

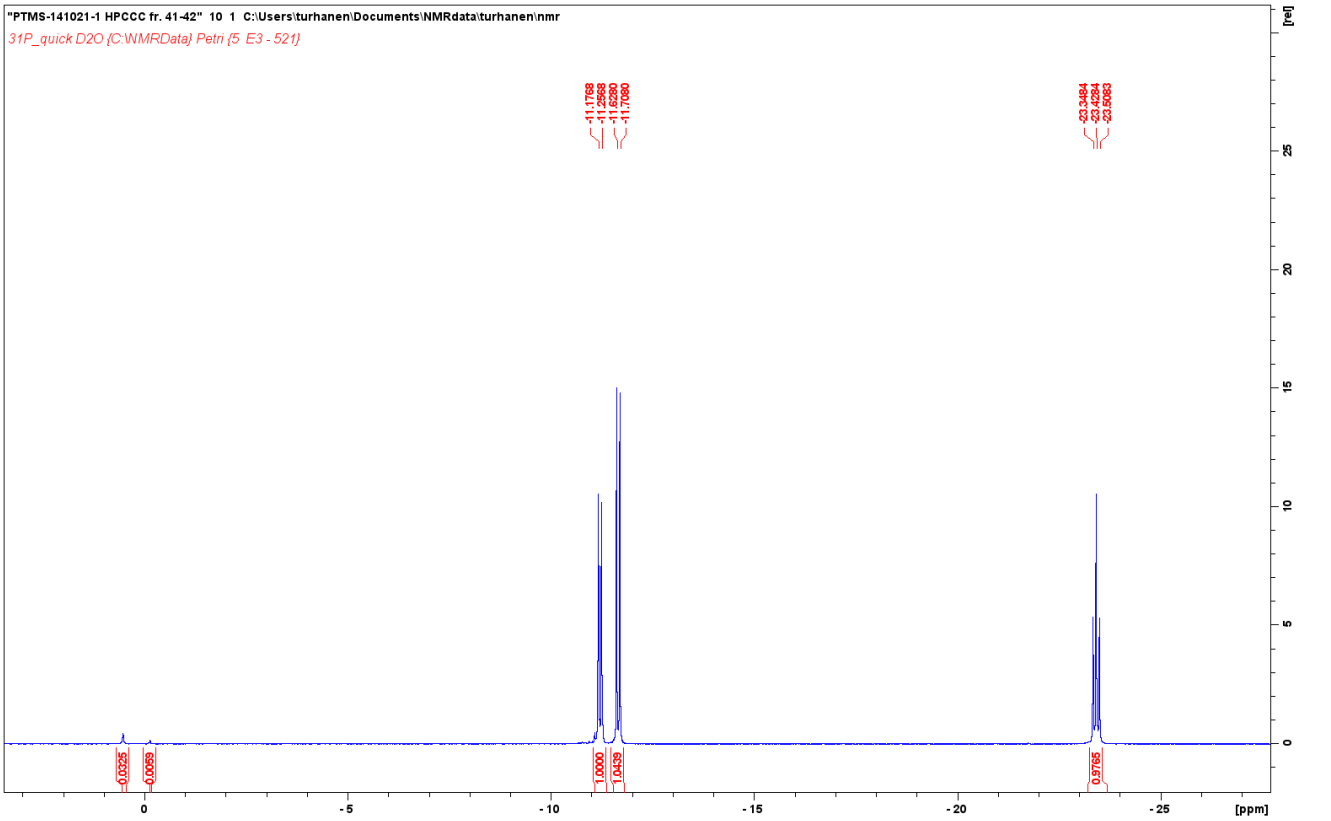


Figure S2: ^{31}P NMR spectrum of ApppI(d_2)·3.25 TBA salt.

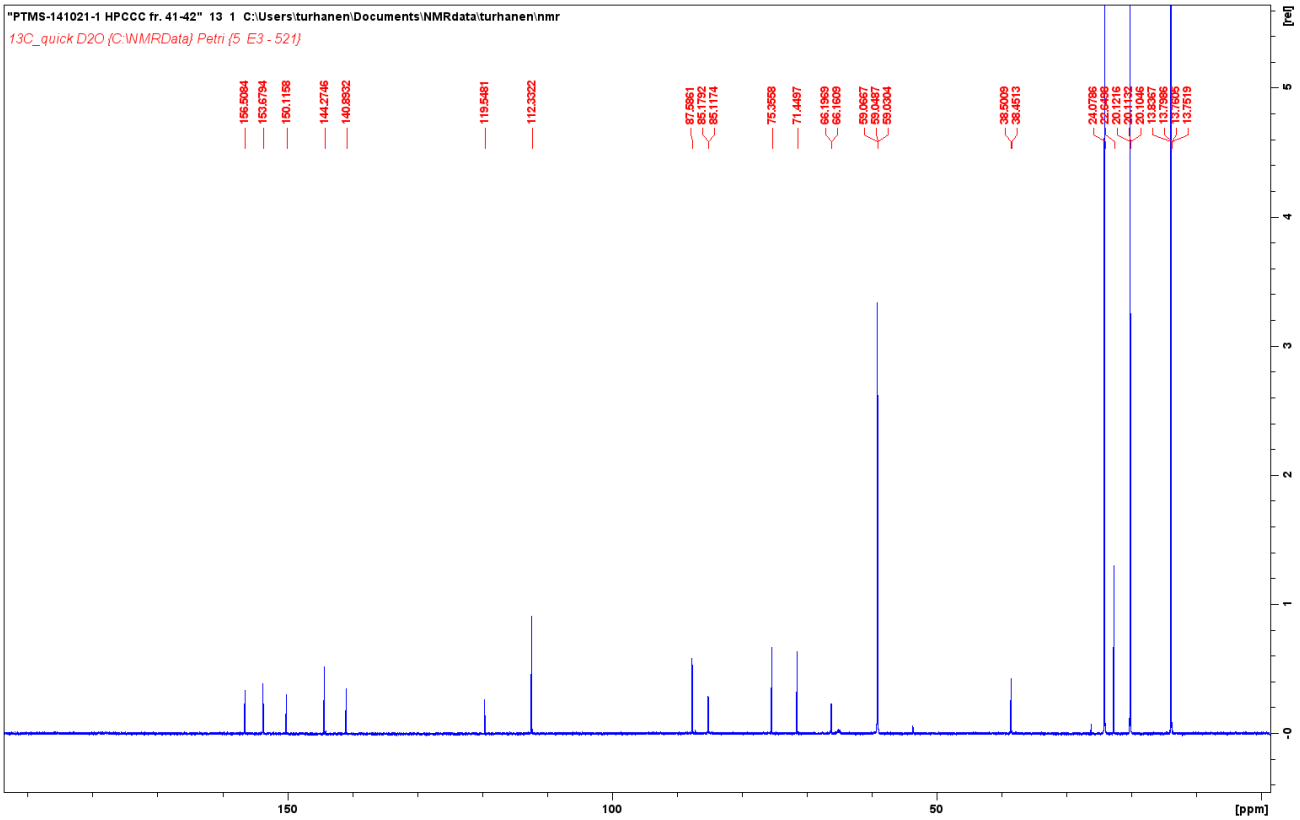


Figure S3: ^{13}C NMR spectrum of ApppI(d_2)·3.25 TBA salt.

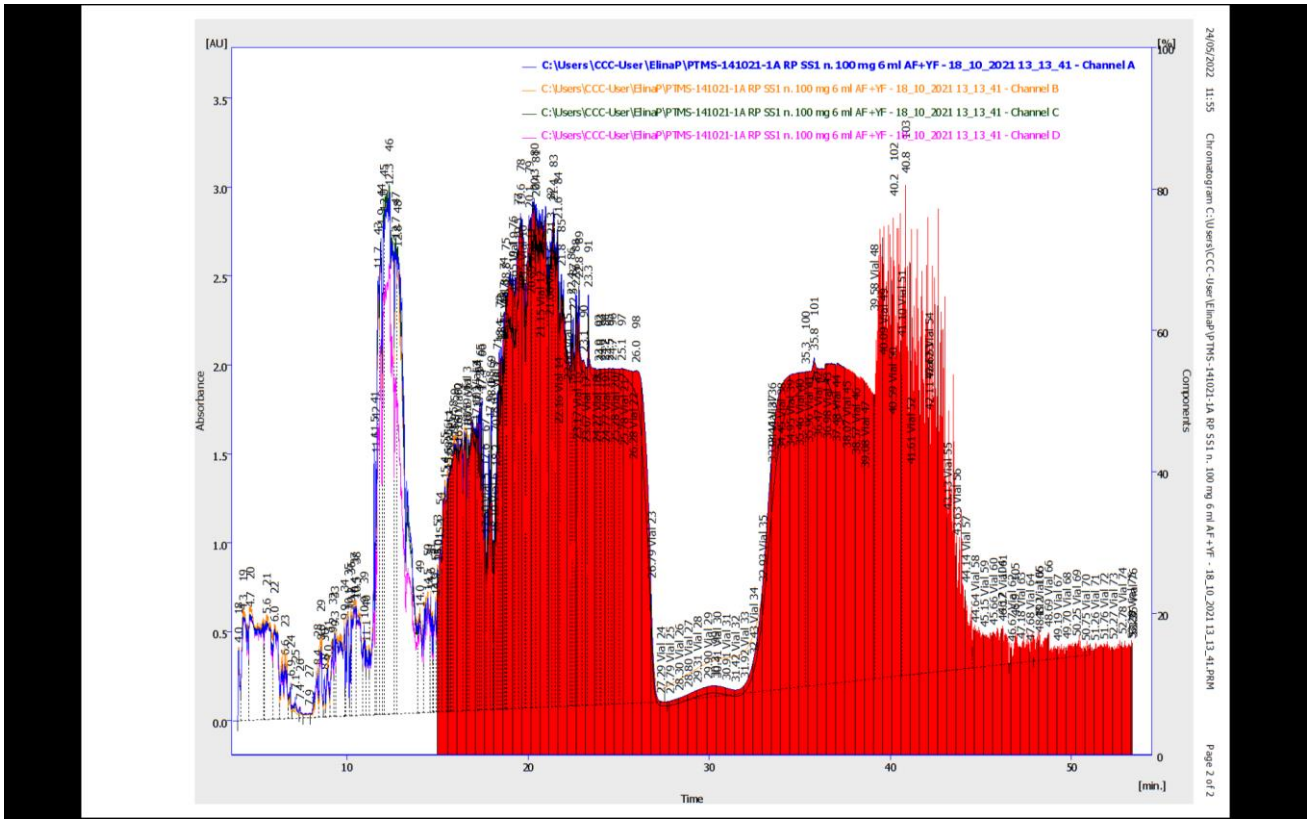


Figure S4: HPCCC chromatogram for the purification of ApppI(d_2). Vials 34–40 contained ApppI(d_2)·5.25 TBA salt and vials 41–42 ApppI(d_2)·3.25 TBA salt.