



Fig.S-1 Expanded Ala $\text{C}\beta$ peaks in the ^{13}C CP/MAS spectra of $(\text{Ala})_n$ ($n = 3, 4, 5, 6, 7, 8$ and 12).

$(\text{Ala})_n$ ($n = 3, 4, 5$ and 6) samples were purchased and used without further treatment. $(\text{Ala})_n$ ($n = 7, 8$ and 12) were prepared in this work as precipitated powder after dialysis of the 55%(w/w) LiSCN aqueous solution against water.