Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics

Supporting Information

Structure and membrane interactions of the β-amyloid fragment 25-35 as viewed by spectroscopic approaches

Jean-François Labbé, Thierry Lefèvre, Andrée-Anne Guay-Bégin and Michèle Auger

TABLE S1

Solid-state ^{13}C NMR parameters for $A\beta_{25-35}$ in the absence and presence of membranes.

System	δ_{iso} $^{13}C=O$ Ala-30 (ppm)	δ_{iso} $^{13}CH_{2\alpha}$ Gly-33 (ppm)	$W_{½}$ $^{13}C=O$ Ala-30 (Hz)	$W_{½}$ $^{13}CH_{2\alpha}$ Gly-33 (Hz)	T_2^{ZQ} (ms)
Aβ 2-^{13}C	173.6	43.7	191	207	3.2
Aβ 2-^{13}C 5:1	173.3	42.2	136	208	4.0
Lyophilized DMPC/DMPG 4:1 +Aβ 2-^{13}C 5:1	173.2	42.0	116	151	5.4

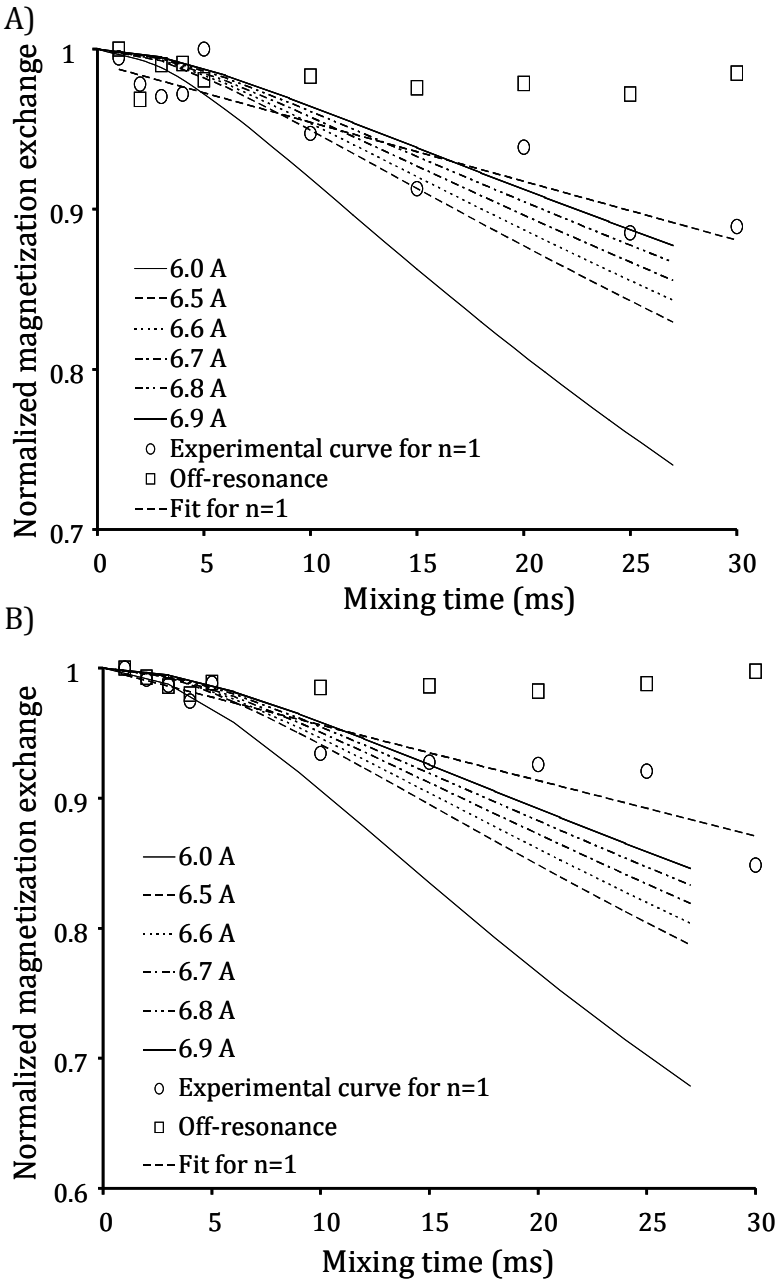

FIGURE S1: R^2 magnetization exchange curves and simulations for A) $A\beta_{25-35}$ 2-^{13}C isotopically diluted 5:1 and B) in the presence of DMPC/DMPG 4:1 at a lipid: peptide molar ratio of 5:1 at 24^{o}C.