

Supplementary Materials

Adsorption of biomineralization protein Mms6 on magnetite (Fe₃O₄) nanoparticles

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Table S1 List of proteins used in this study

Protein	Origin	Size	pI	Amino acid sequence
His-Mms6	<i>M. magneticum</i> AMB-1	6.9	6.0	MGHHHHHHHGGTIWTGKGLGLGLGLGLGAWGP LGVVGAGAVYAYMKSRDIESAQSDDEEVELRDAL A
His-Mms7	<i>M. magneticum</i> AMB-1	6.5	6.8	MGHHHHHHHAKGLGLGLGLGLGAWGPFLGAAG LAGAAALYVWARRRHGTPDLSDDALLAAAGEE
His- α synuclein	Human	15.5	5.2	MGHHHHHHHMDVFMKGLSKAKEGVVAAAEKTK QGVAAEAGKTKEGVLYVGSKTKEGVVHGVATVA EKTKEQVTNVGGAVVTGVTAVAQKTVEGAGSIA AATGFVKKDQLGKNEEGAPQEGILEDMPVDPDN EAYEMPSEEGYQDYEP
BSA	Bovine Serum	66.3	4.9	THKSEIAHRFKDLGEEHFKGLVLIAFSQYLQQCPF DEHVKLVNELTEFAKTCVADESHAGCEKSLHTLF GDELCKVASLRETYGDMADCCEKQEPERNECFL SHKDDSPDLPKLKPDPNTLCDEFKADEKKFWGK YLYEIARRHPYFYAPELLYANKYNGVFQECCQA EDKGACLLPKIETMREKVLASSARQLRCASIQK FGERALKAWSVARLSQKFPKAEFVEVTKLVTDLT KVHKECCHGDLLECADDRADLAKYICDNQDTIS SKLKECCDKPLLEKSHCIAEVEKDAIPENLPPLTA DFAEDKDVCKNYQEAKDAFLGSFLYEYSRRHPE YAVSVLLRLAKEYEATLEECCA KDDPHACYSTVF DKLKHLVDE

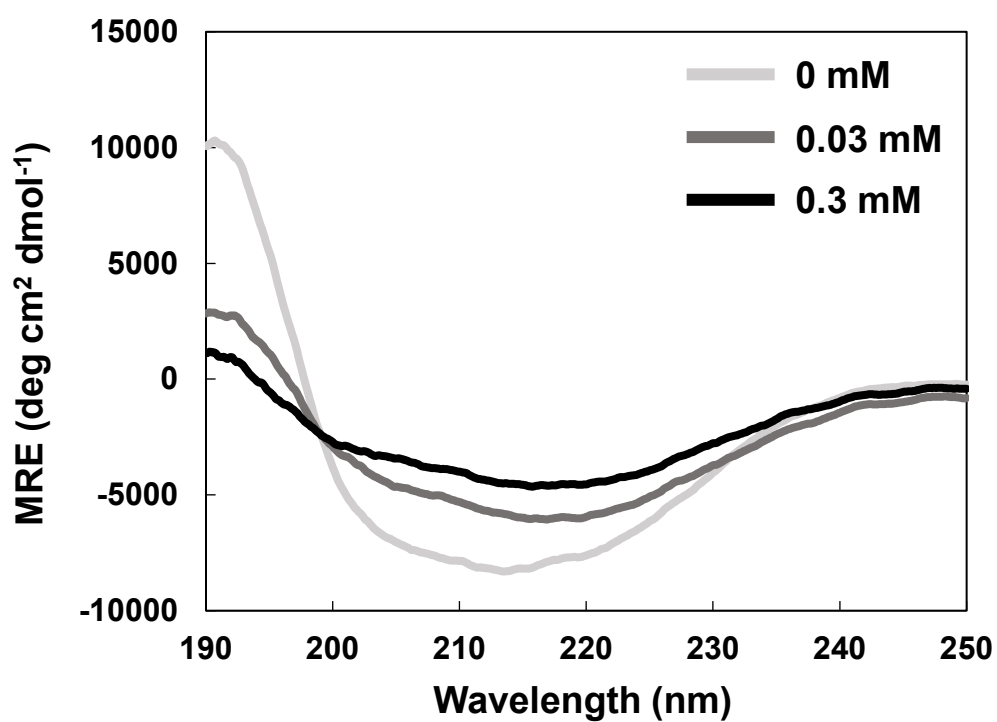


Figure S1 CD spectra of the Mms6 in various Fe^{2+} concentration (0-0.3 mM).