

Supplementary Information For
The Ionic Liquid [C₄mpy][Tf₂N] Induces Bound-like Structure in the Intrinsically Disordered Protein FlgM

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Table S1: List of all simulations, including the system, temperatures considered, number of system replicates, and length of simulation

System	Temperature(s)	Number of Replicates	Simulation Length
FlgM bound to σ^{28} with 0 IL pairs	300 K 358 K	1 1	200 ns
FlgM with 0 IL pairs	300 K 358 K	2 2	200 ns
FlgM with 10 IL pairs	300 K 358 K	2 2	200 ns
FlgM with 20 IL pairs	300 K 358 K	2 2	200 ns
FlgM with 30 IL pairs	300 K 358 K	2 2	200 ns
FlgM with 40 IL pairs	300 K 358 K	2 2	200 ns
FlgM with 50 IL pairs	300 K 358 K	2 2	200 ns
50 IL pairs in water	300 K	1	200 ns

Table S2: Residue numbers and naming scheme for the FlgM helix subsystems isolated from the 1SC5 PDB file

System	Residues	Length
Helix 1 (H1)	3 - 24	22
Helix 2 (H2)	34 - 50	17
Helix 3 (H3)	50 - 71	22
Helix 4 (H4)	73 - 88	16