

**Supplementary material**

**Conformational and Hydration Properties Modulate the Ice Recognition by  
Type I Antifreeze Protein and its Mutants**

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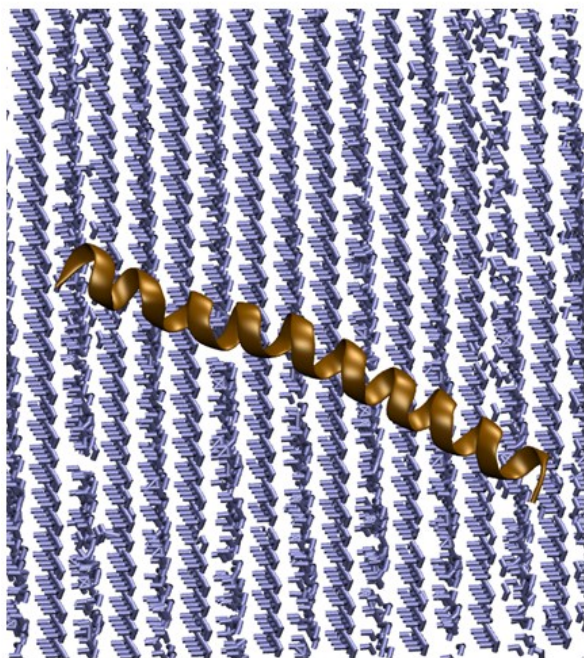
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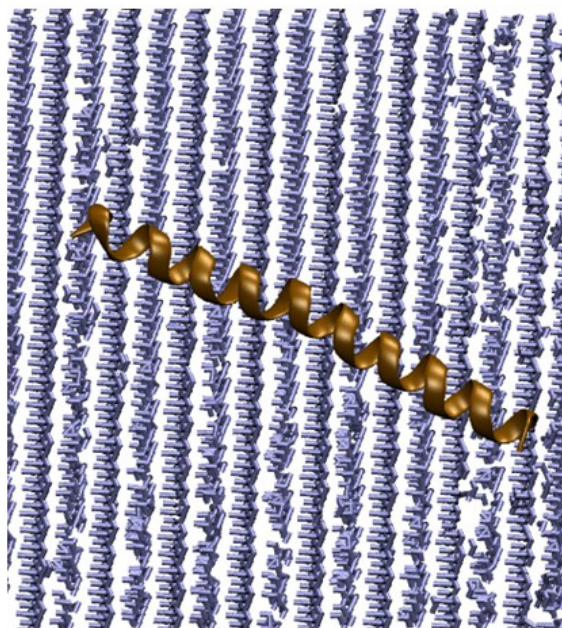
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**HPLC6**



**Valine mutant**



**Fig. S1:** Top view image of the bound wild type *wf*AFP (left panel) and its valine mutant (right panel) on the  $[2\ 0\ 2\ 1]$  pyramidal plane is shown. Ice surface is shown in ice-blue stick mode while the bound AFP is shown in cartoon representation (brown color).