

## Supporting Information

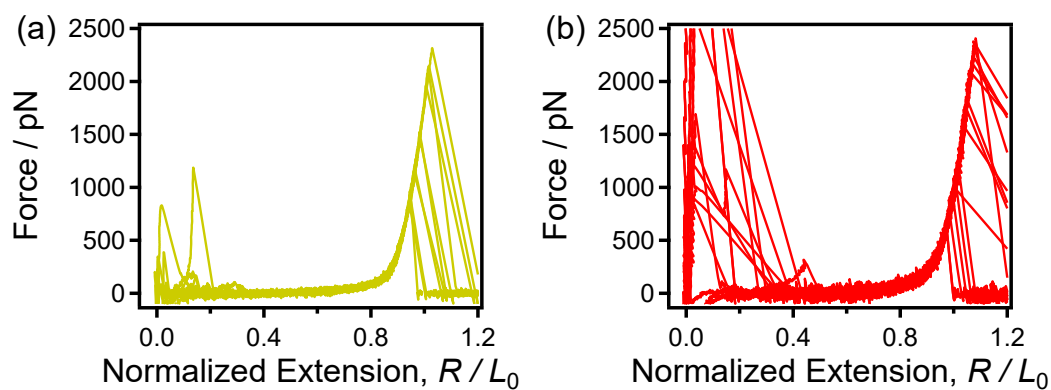
# **What happens when chitin becomes chitosan? A single-molecule study**

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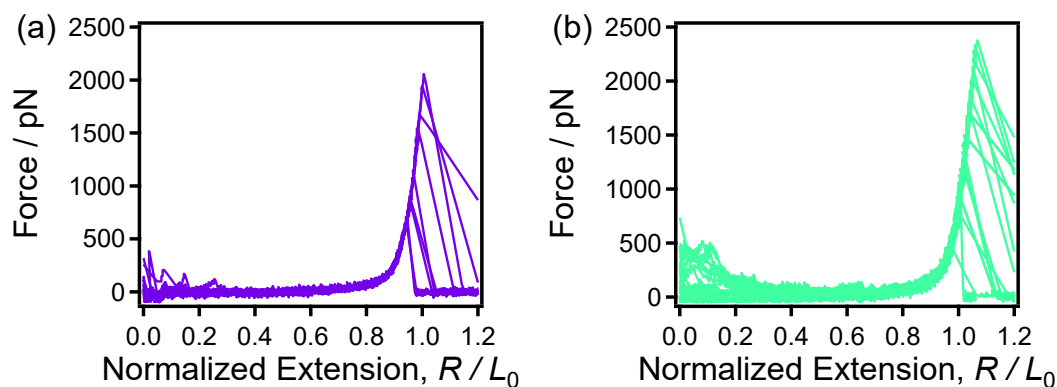
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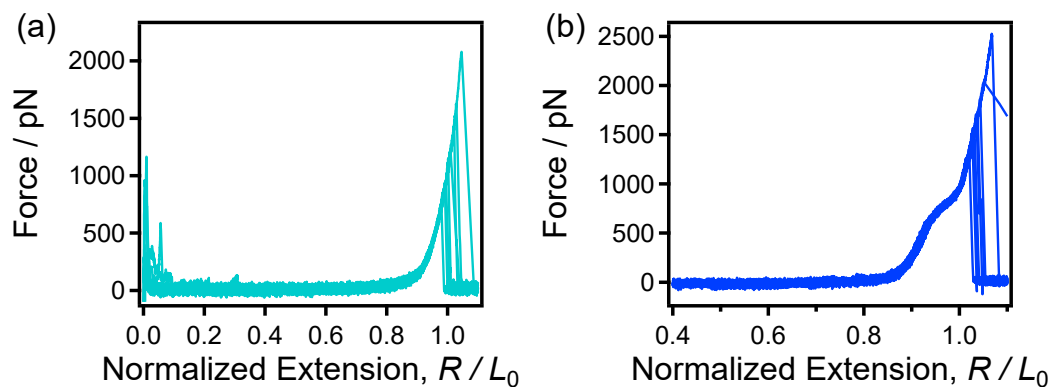
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**Fig. S1** The typical F-E curves of chitin (a) and chitosan (b) obtain in nonane respectively.



**Fig. S2** The typical F-E curves of chitin (a) and chitosan (b) obtain in DMSO respectively.



**Fig. S3** The normalized single-chain F-E curves of chitin (a) and chitosan (b) obtained in water respectively.