

Supporting Information

Protein-Polymer Conjugates Prepared via Host-Guest Interactions: Effects of Conjugation Site, Polymer Type and Molecular Weight on Protein Activity

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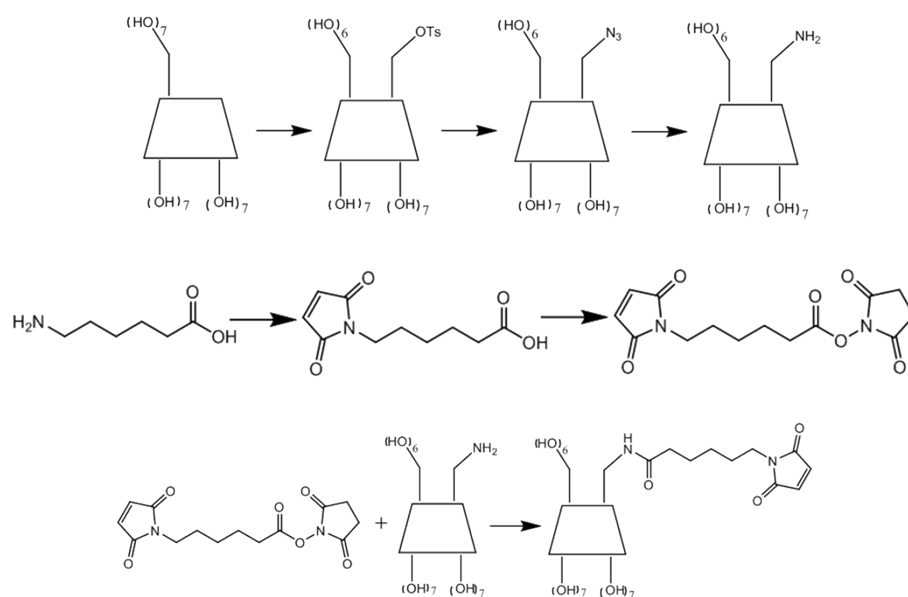
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Scheme S1. Synthetic pathway for maleimido-functionalized cyclodextrin (CD-MAL)



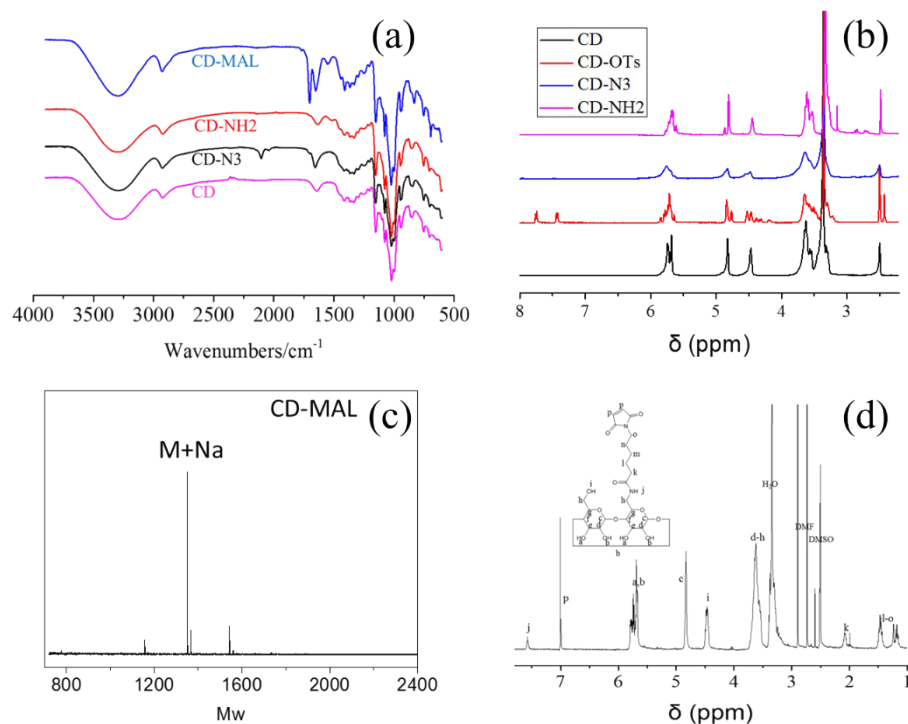


Figure S1. (a) FT-IR spectrum of CD, CD-N₃, CD-NH₂ and CD-MAL. (b) ¹H NMR spectrum of CD, CD-OTs, CD-N₃ and CD-NH₂. (c) MS of CD-MAL. (d) ¹H NMR spectrum of CD-MAL.

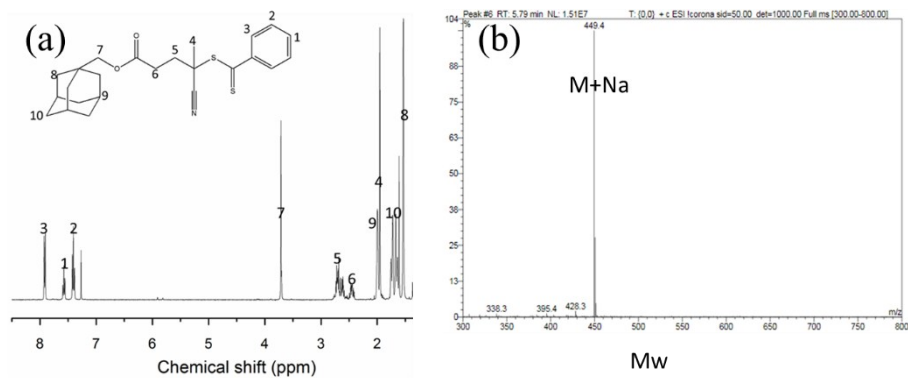


Figure S2. ¹H NMR spectrum (a) and MS (b) of CTA-Ada.

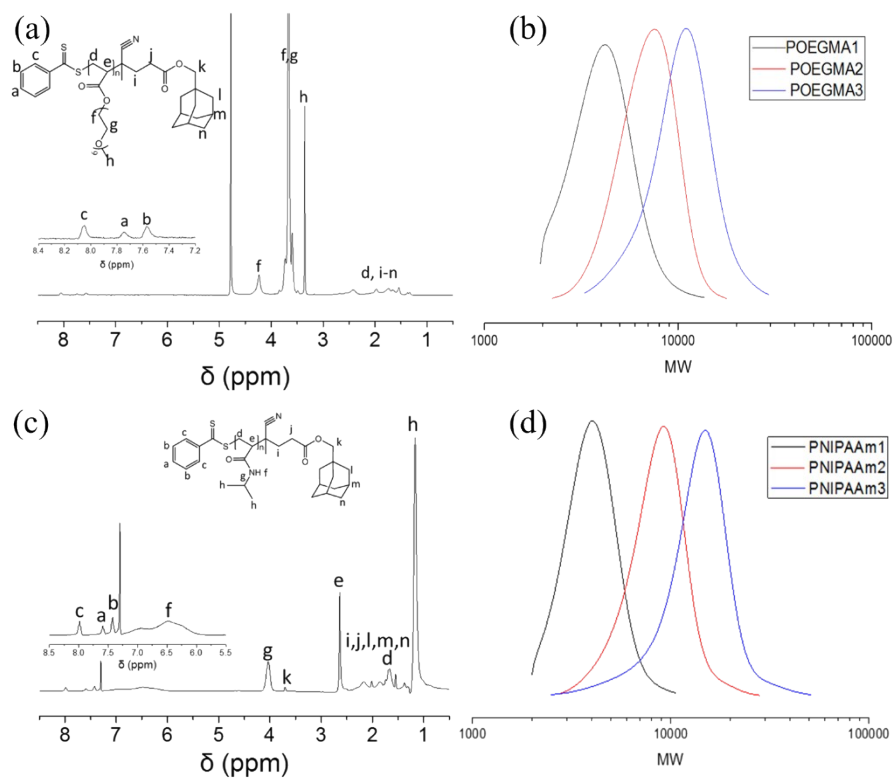


Figure S3. ^1H NMR spectrum of Ada-POEGMA (a) and Ada-PNIPAAm (c). GPC curves of Ada-POEGMA (b) and Ada-PNIPAAm (d).

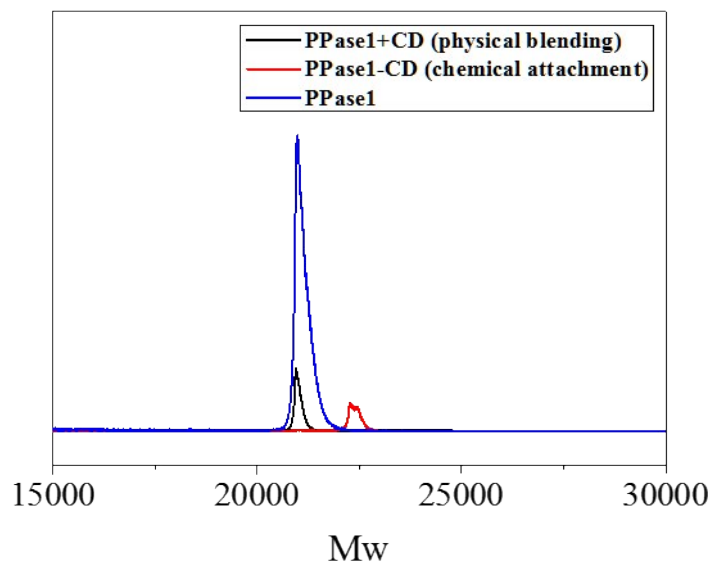


Figure S4. MALDI-TOF-MS analysis of PPase1, PPase1-CD (chemical attachment) and PPase1+CD (physical blending).

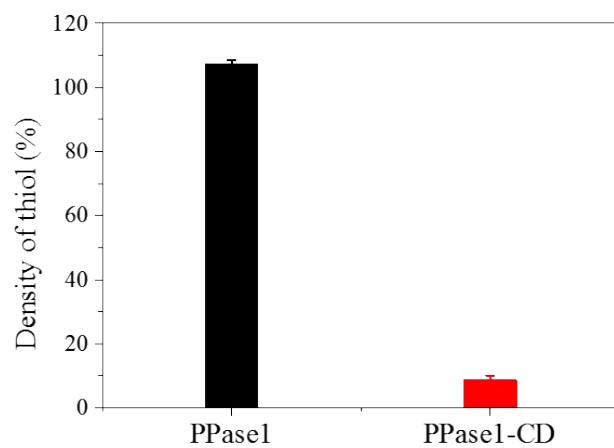


Figure S5. Free thiol content analysis of PPase1 and PPase1-CD.

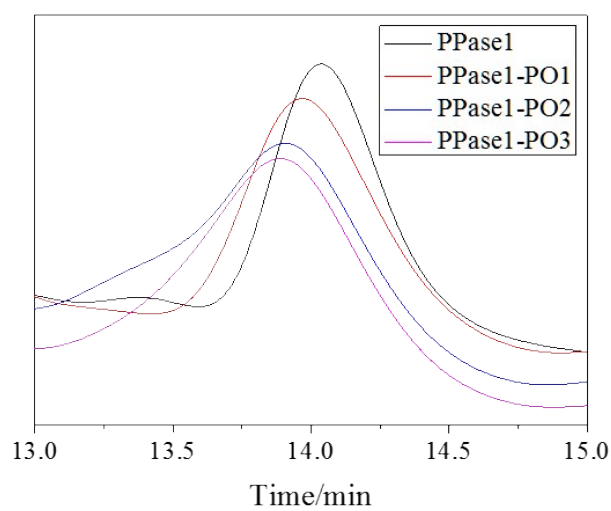


Figure S6. GPC analysis of PPase1 and PPase1-PO.

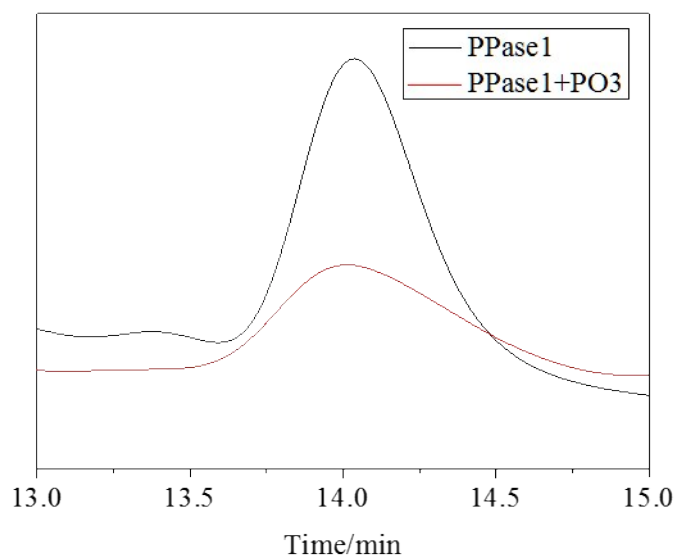


Figure S7. GPC analysis of PPase1 and PPase1+PO3 (physical blending).

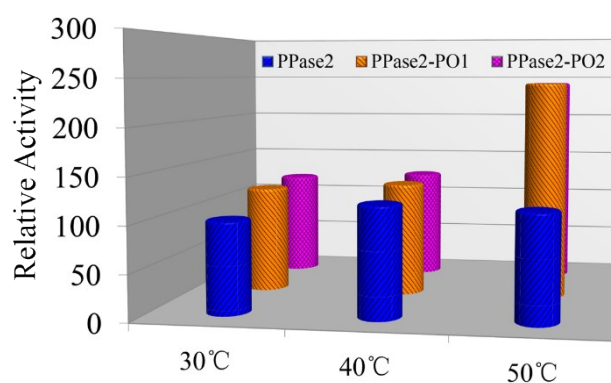


Figure S8. Relative activity of PPase2, PPase2-PO1 and PPase2-PO2 conjugates as a function of temperature.

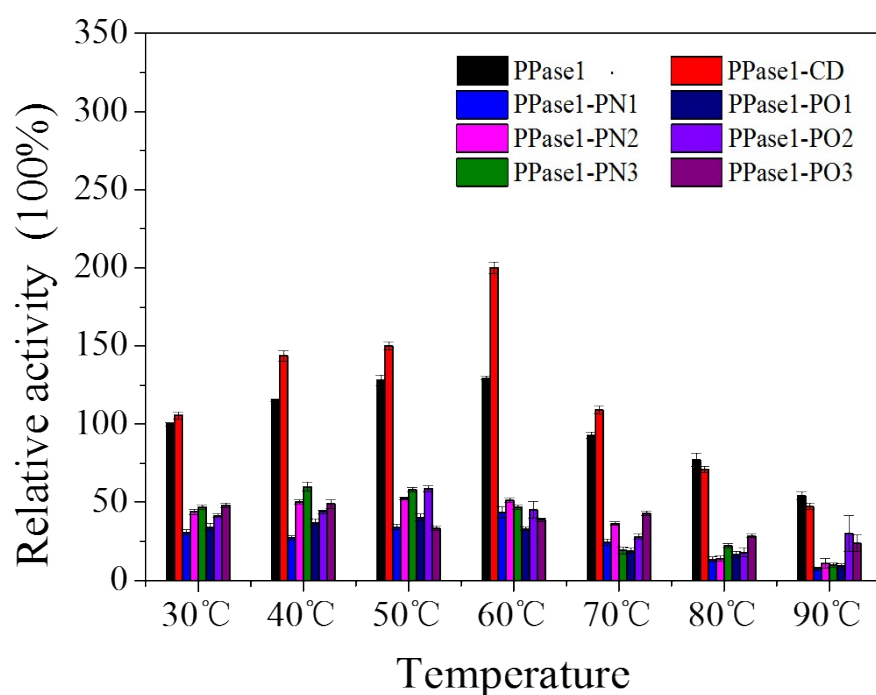


Figure S9. Relative activity of PPase1, PPase1-CD, PPase1-PN1, PPase1-PN2, PPase1-PN3, PPase1-PO1, PPase1-PO2 and PPase1-PO3 conjugates as a function of temperature.

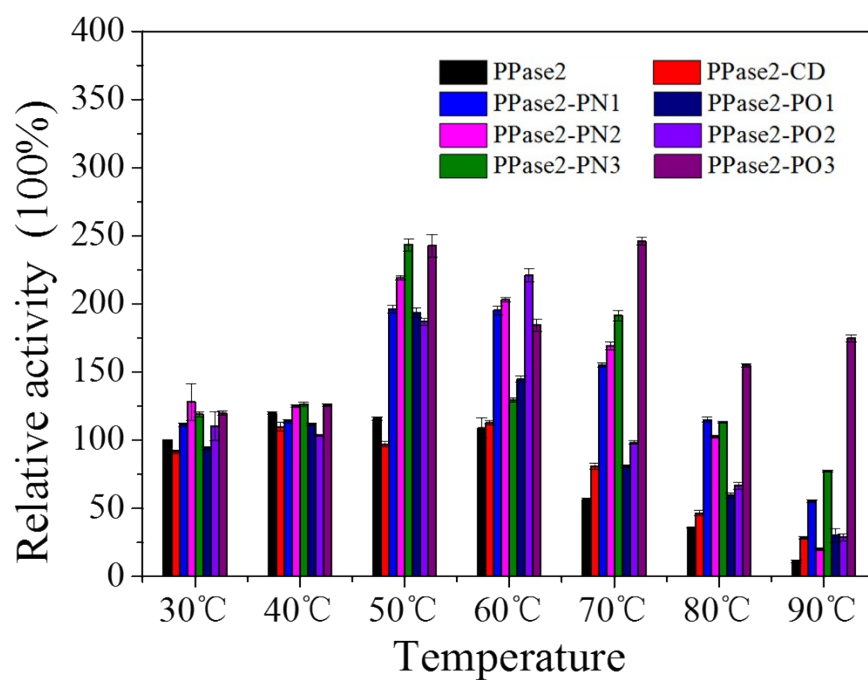


Figure S10. Relative activity of PPase2, PPase2-CD, PPase2-PN1, PPase2-PN2, PPase2-PN3, PPase2-PO1, PPase2-PO2 and PPase2-PO3 conjugates as a function of temperature.