

Supporting Online Material for

Self-assembly Mucoadhesive Nanofibers

P. Suvannasara^a, N. Praphairaksit^b, N. Muangsin^{*c}

^aProgram of Petrochemistry, Faculty of Science, Chulalongkorn University, Bangkok, 10330, Thailand

^bDepartment of Biology, Faculty of Science, Srinakarinwirot University, Bangkok, 10110, Thailand

^cBioorganic Chemistry and Biomaterials Research group, Department of Chemistry, Faculty of Science, Chulalongkorn University, Bangkok, 10330, Thailand

* To whom correspondences should be addressed: nongnuj.j@chula.ac.th

Contents

Fig. S1 Reaction scheme for the covalent attachment of SA and 4-CBS to TMC.	S3
Fig. S2 ¹ H NMR spectra of the (a) chitosan, (b) TMC and (c) 4-CBS-TMC	S4
Fig. S3 FT-IR spectra of the (a) chitosan, (b) TMC, (c) 4-CBS-TMC and (d) SA-4-CBS-TMC.	S5
Fig. S4 XRD pattern of (a) chitosan, (b) 4-CBS-TMC and (c) SA-4-CBS-TMC.	S6
Fig. S5 TGA thermogram of (a) chitosan, (b) TMC, (c) 4-CBS-TMC and (d) SA-4-CBS-TMC.	S7
Fig. S6 The morphology of SA-4-CBS-TMC at the high concentration (13.33 mg/mL).	S8

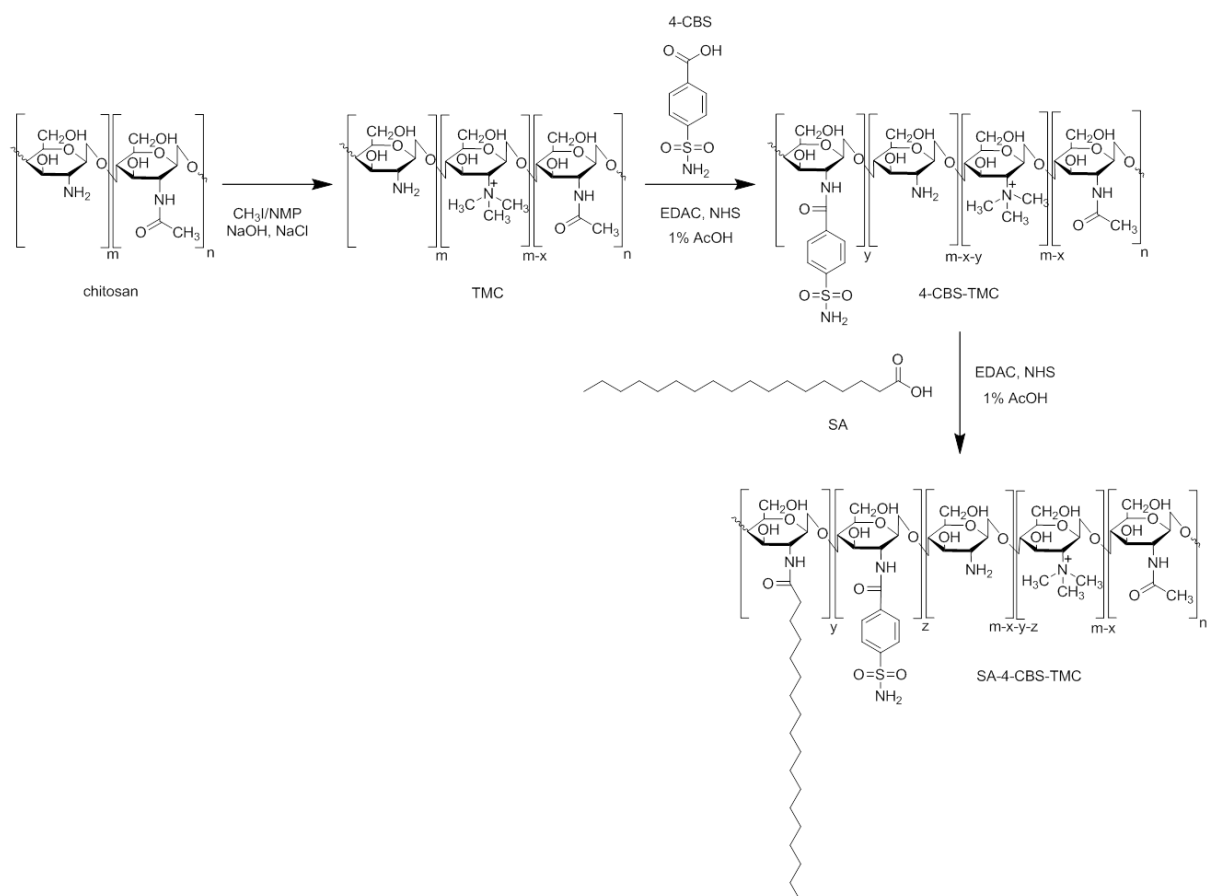


Fig. S1 Reaction scheme for the covalent attachment of SA and 4-CBS to TMC.

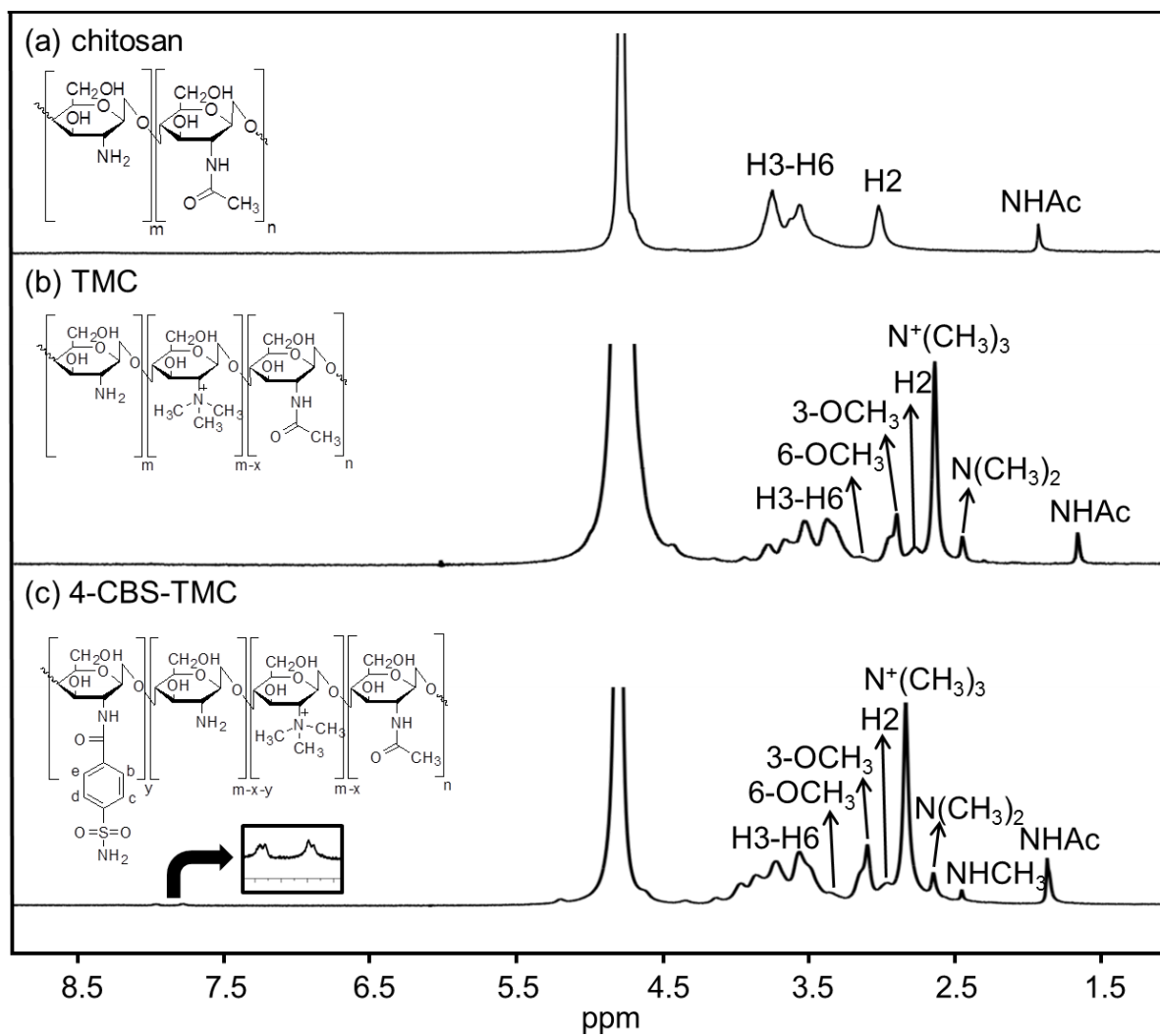


Fig. S2 ^1H NMR spectra of the (a) chitosan, (b) TMC and (c) 4-CBS-TMC.

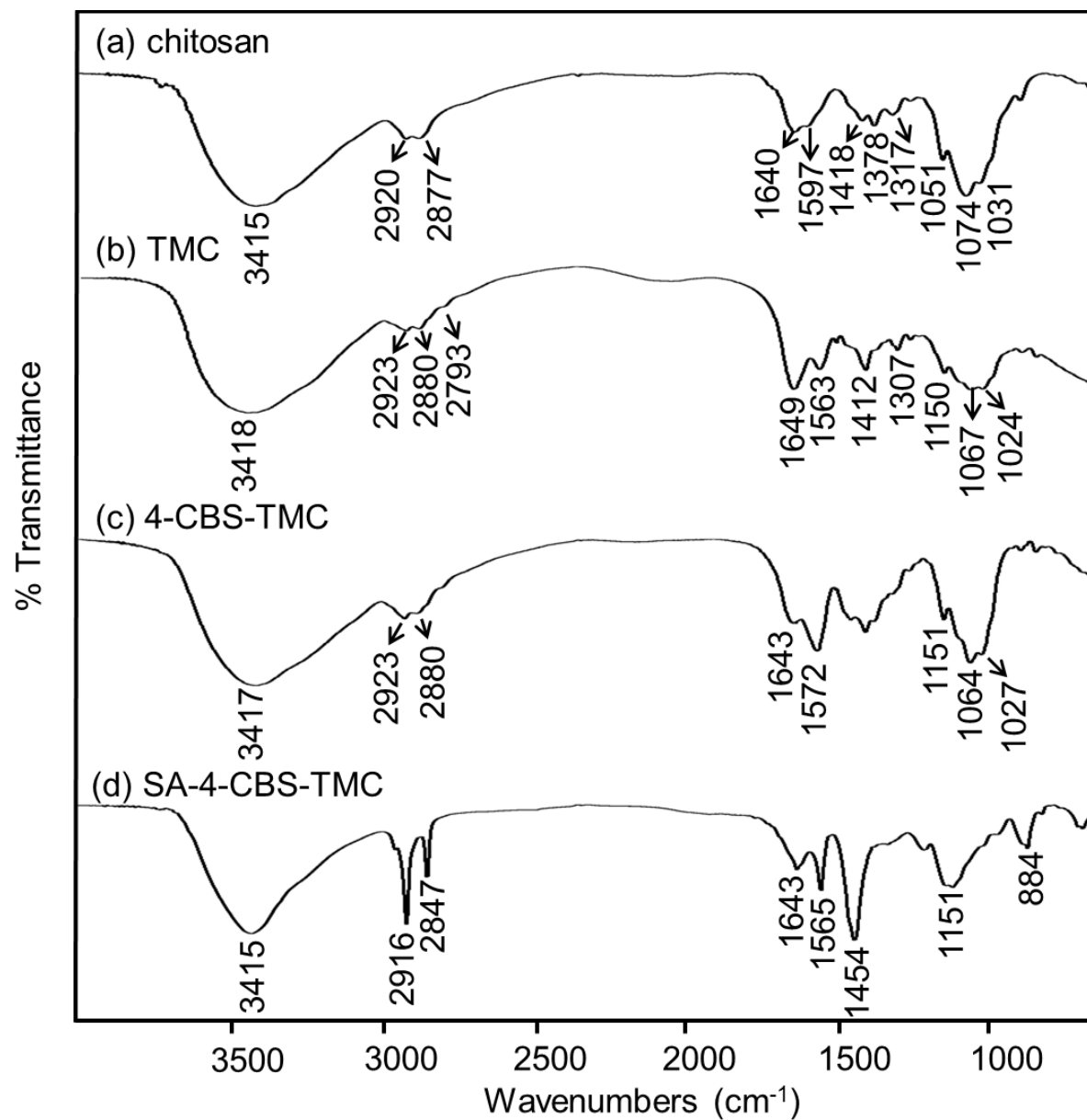


Fig. S3 FT-IR spectra of the (a) chitosan, (b) TMC, (c) 4-CBS-TMC and (d) SA-4-CBS-TMC.

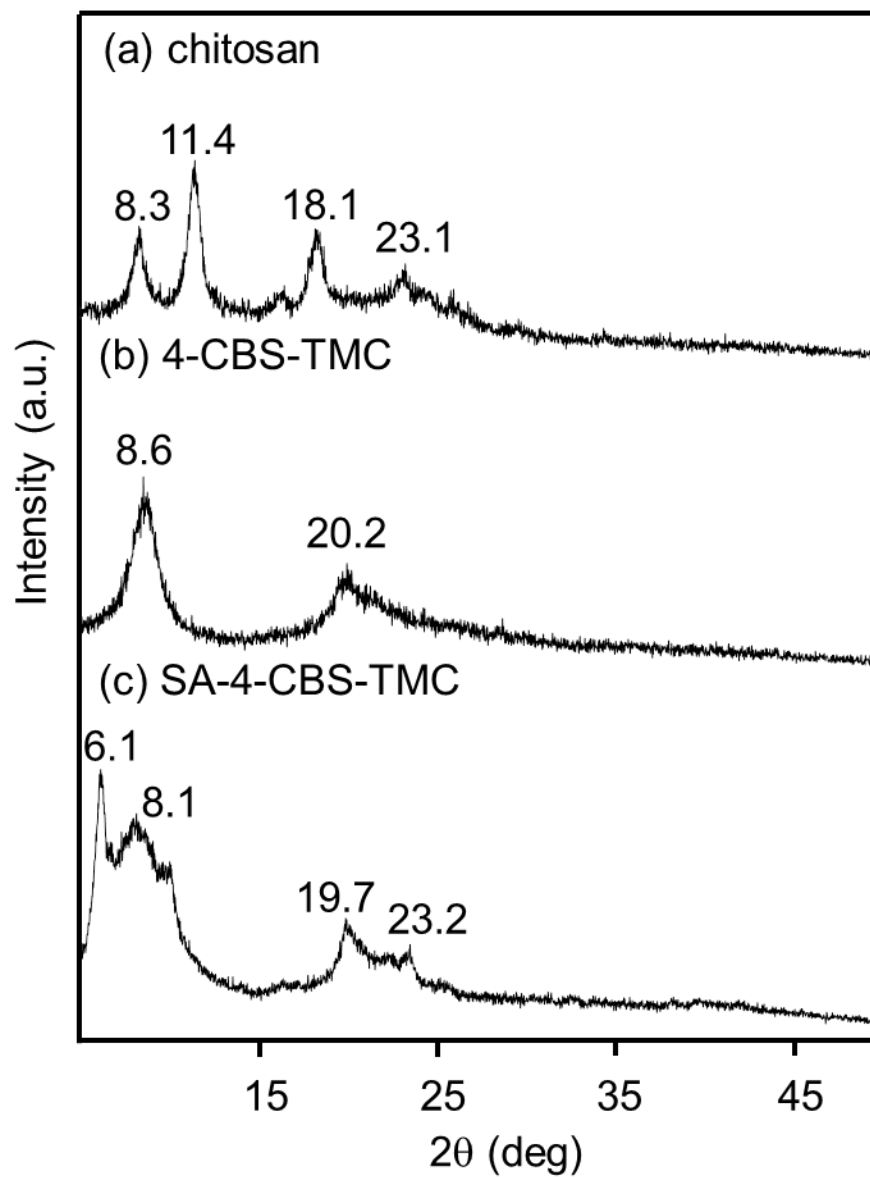


Fig. S4 XRD pattern of (a) chitosan, (b) 4-CBS-TMC and (c) SA-4-CBS-TMC.

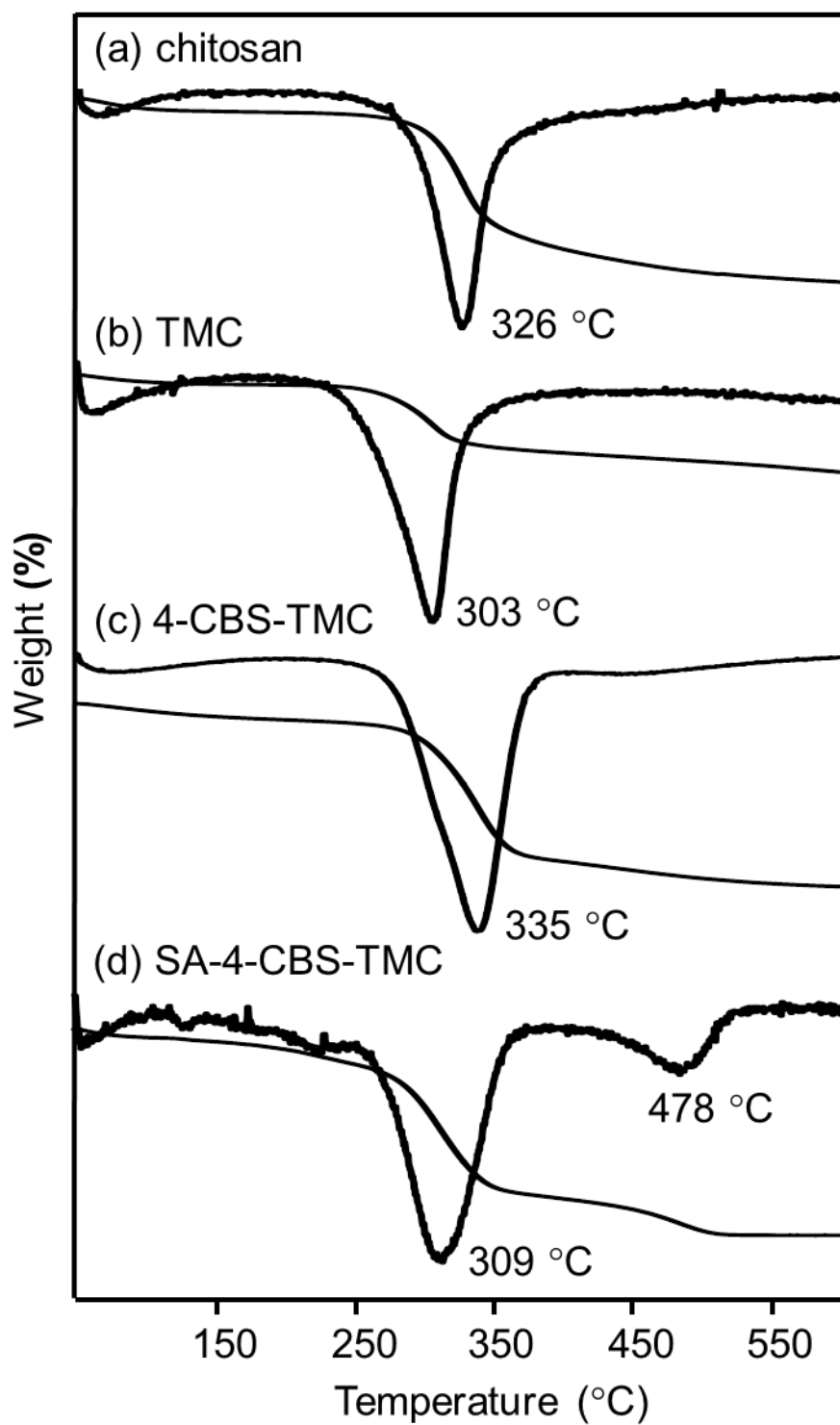


Fig. S5 TGA thermogram of (a) chitosan, (b) TMC, (c) 4-CBS-TMC and (d) SA-4-CBS-TMC.

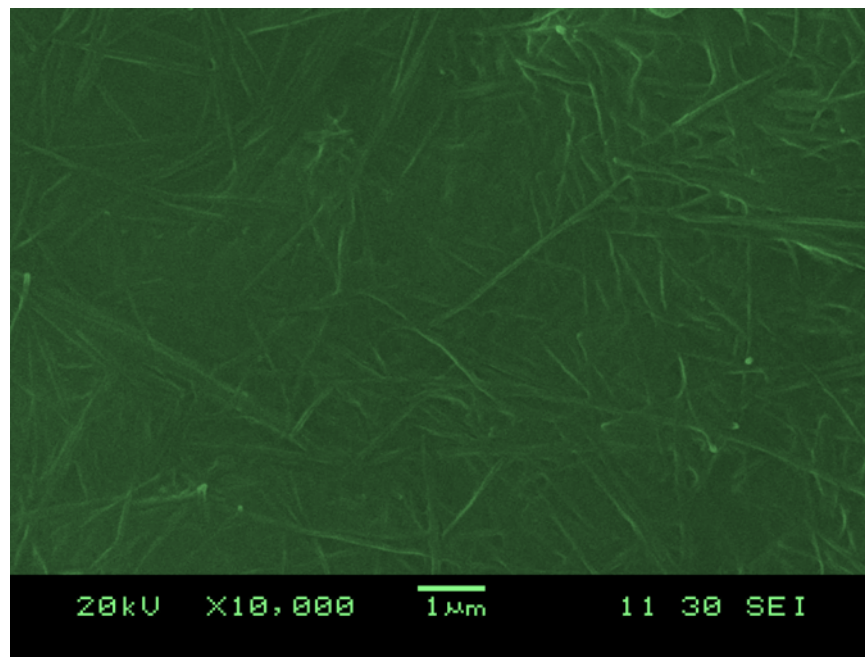


Figure S6. The morphology of SA-4-CBS-TMC at the high concentration (13.33 mg/mL).