Supplemental Figures:

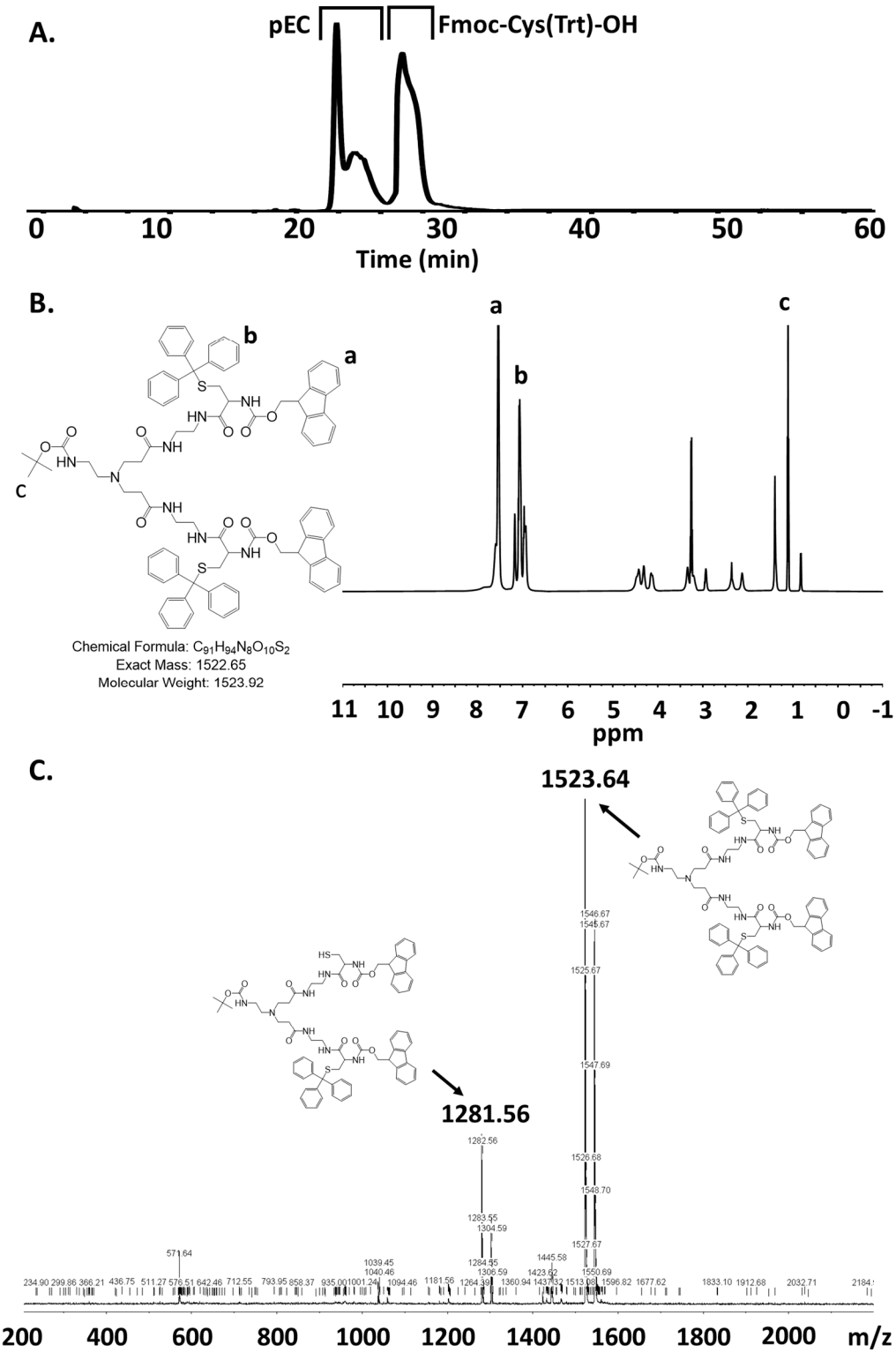


Figure S1: Characterization of pEC. **A**) HPLC analysis at 256nm **B**) ^{1}H-NMR, and **C**) MALDI-TOF mass spectrum of pEC revealing the presence of Fmoc-Cys(Trt)-OH in addition to pEC.

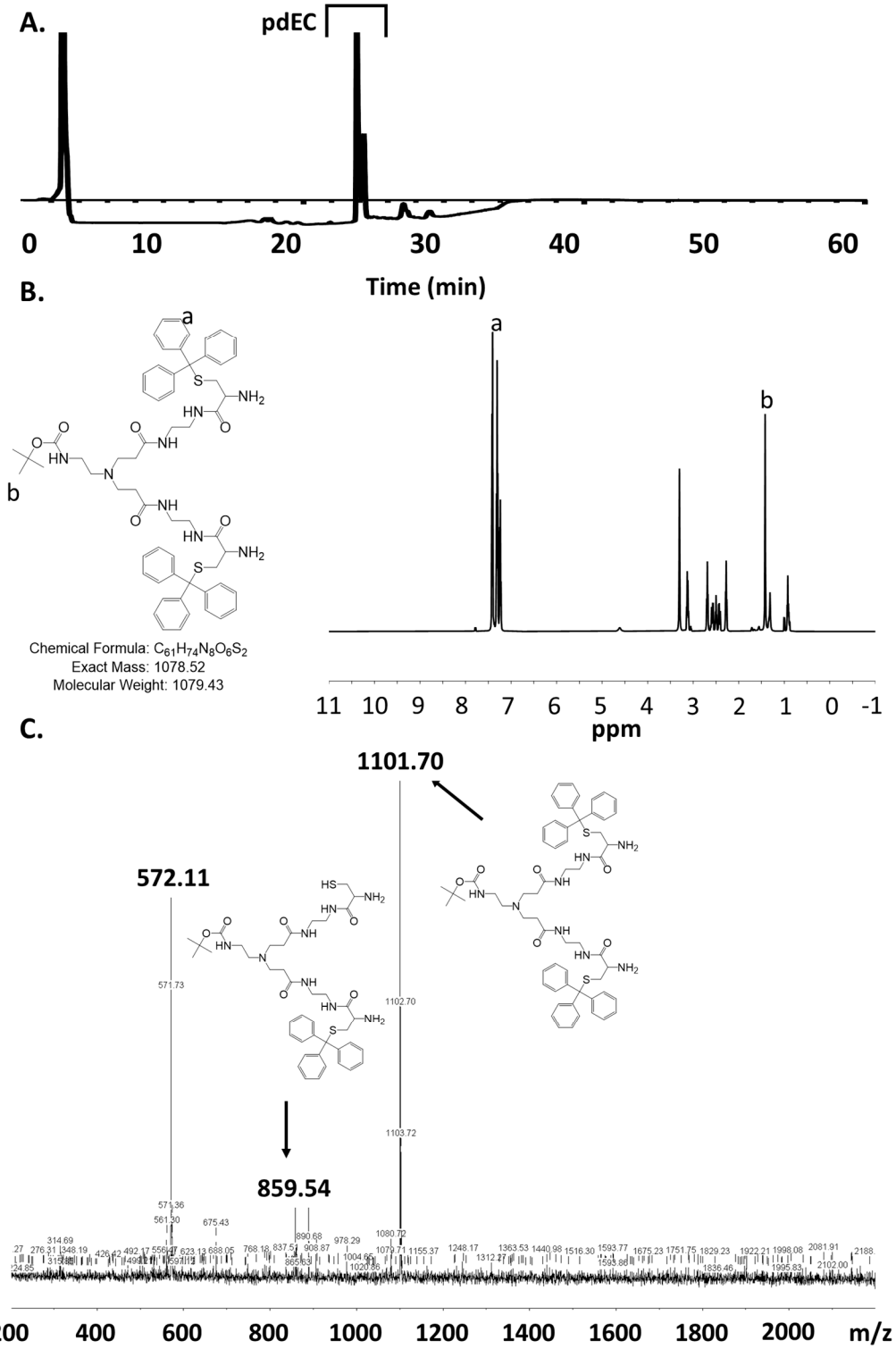


Figure S2. Characterization of pdEC. **A**) HPLC at 256nm analysis **B**) ^{1}H-NMR, and **C**) MALDI-TOF mass spectrum of pdEC revealing strong pdEC signal with no indication of impurities.

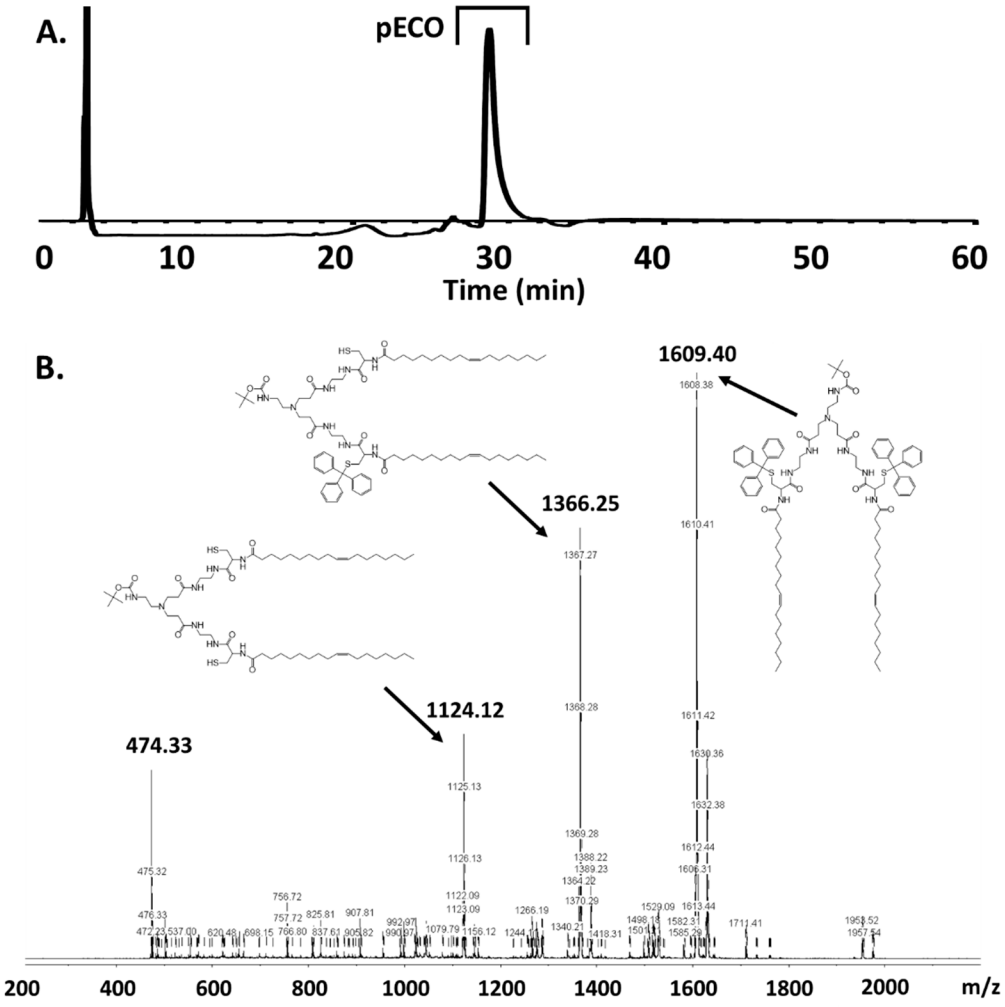


Figure S3. Characterization of pECO. **A**) HPLC analysis at 256nm and **B**) MALDI-TOF mass spectrum of pECO showing strong presence of pECO with various partially deprotected pECO.

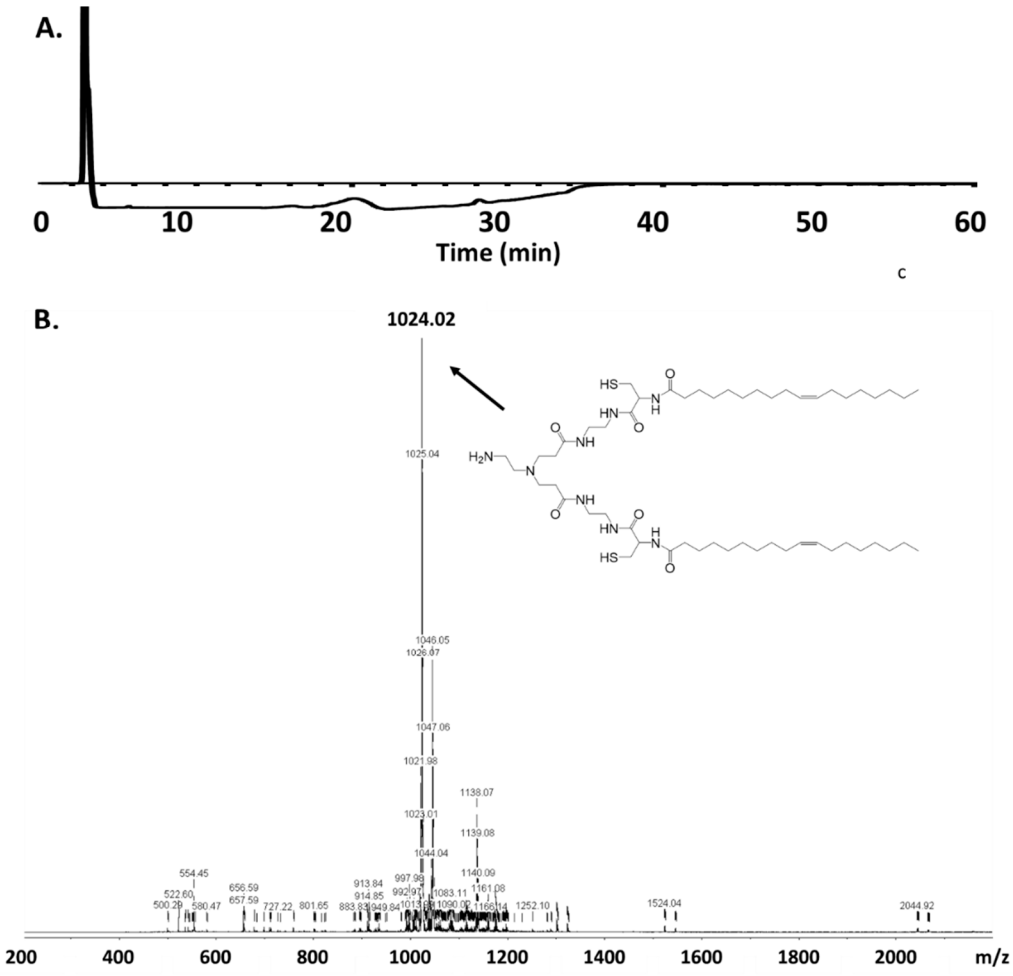


Figure S4. Characterization of ECO. **A**) HPLC analysis at 256nm and **B**) MALDI-TOF mass spectrum of ECO revealing successful removal of trityl cations and pure ECO.