

Cross-linked thiolated hydroxypropyl- β -cyclodextrin for pulmonary drug delivery

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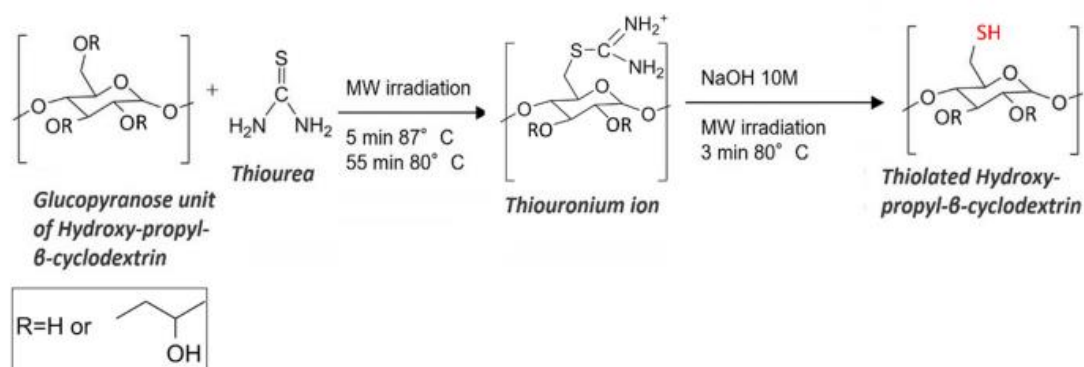


Figure S1. Synthesis scheme for HP- β -CD-SH

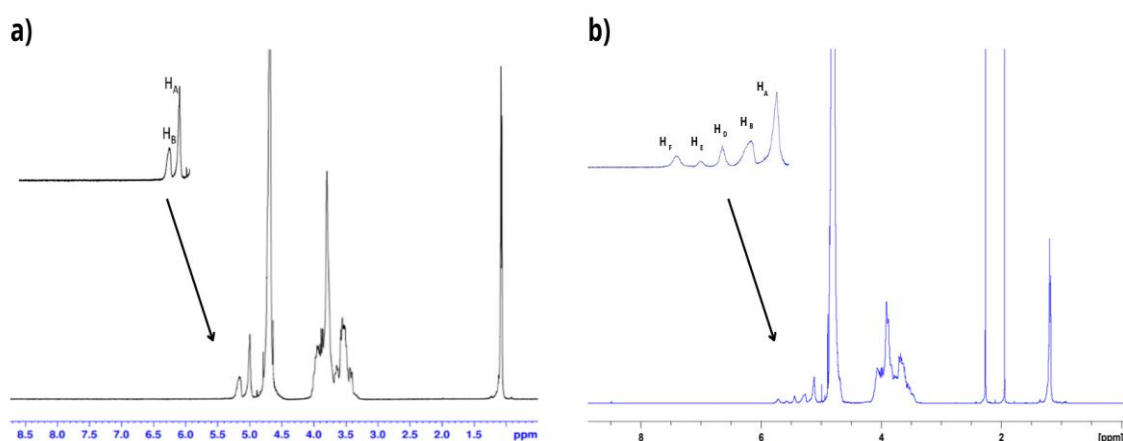


Figure S2. ^1H NMR spectra were recorded at 600 MHz in D_2O at 25°C with a concentration of 5 mg/mL. (a) HP- β -CD: the anomeric protons of the hydroxypropyl functionalized and not functionalized glucose at $\delta = 5.03$ ppm and 5.17 ppm, respectively, signals in the range of 2.8-3.9 ppm attributed to the protons of the pyranosidic ring, and at 1 ppm the methylene protons of the hydroxypropyl moiety; (b) HP- β -CD-SH: peaks at $\delta = 5.03$ ppm and 5.169 ppm (corresponding to the anomeric protons of the hydroxypropyl β -CD), along with signals at 5.34 ppm, 5.45 ppm, and 5.61 ppm corresponding to the anomeric signals of thiolated sugars.

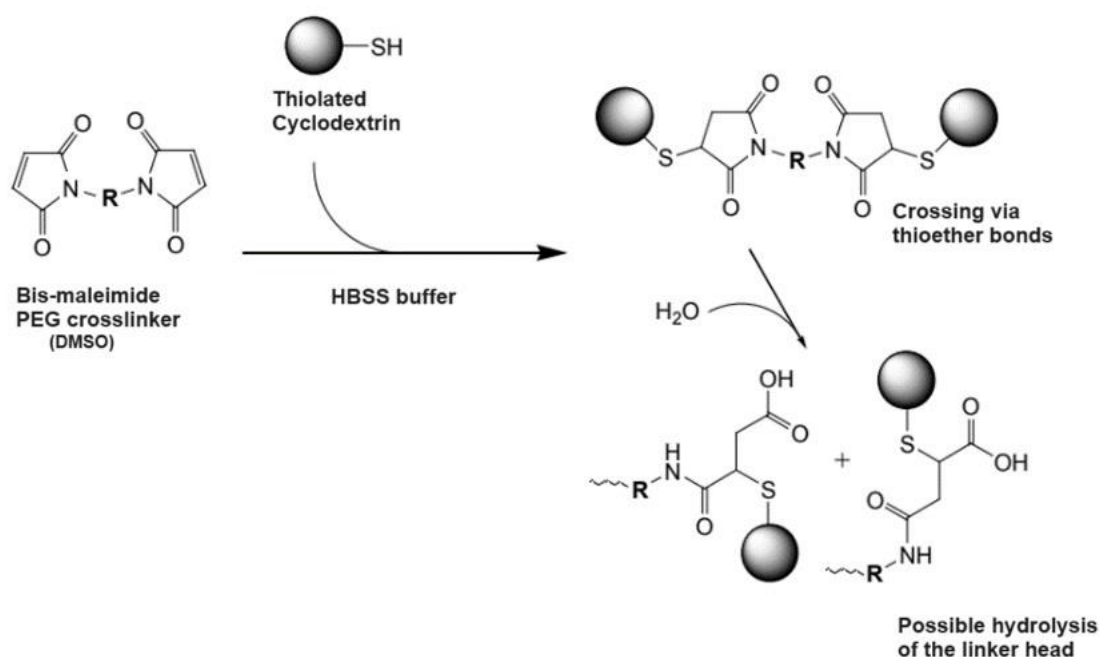


Figure S3. Crosslinking scheme for HP- β -CD-SH-NP.