

Figure S1. The reaction of esterification of budesonide, resulting in budesonide palmitate.

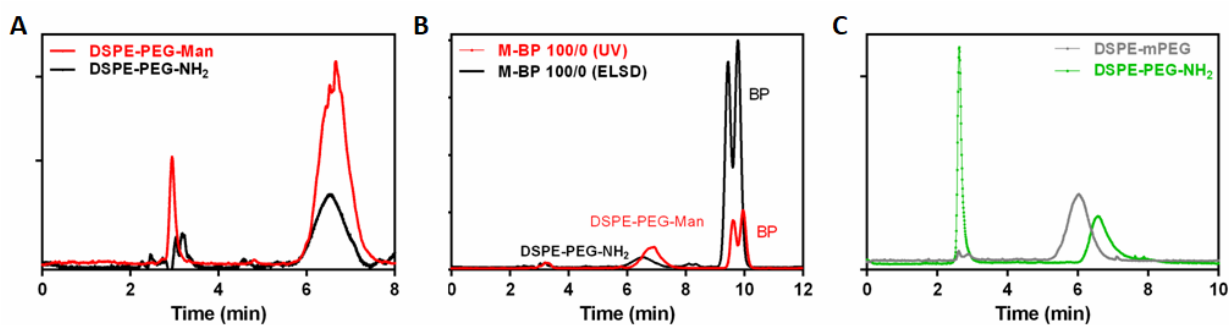


Figure S2: HPLC-ELSD-UV chromatograms of DSPE-PEG-Man and mannosylated formulations. A) DSPE-PEG-Man chromatogram: DSPE-PEG-Man (red, UV detector) and DSPE-PEG-NH₂ (black, ELSD detector); B) mannosylated nanoparticles 100/0 (red: UV detection, and black: ELSD detection); C) ELSD chromatogram, showing the overlap between DSPE-mPEG (gray) and DSPE-PEG-NH₂ (green).

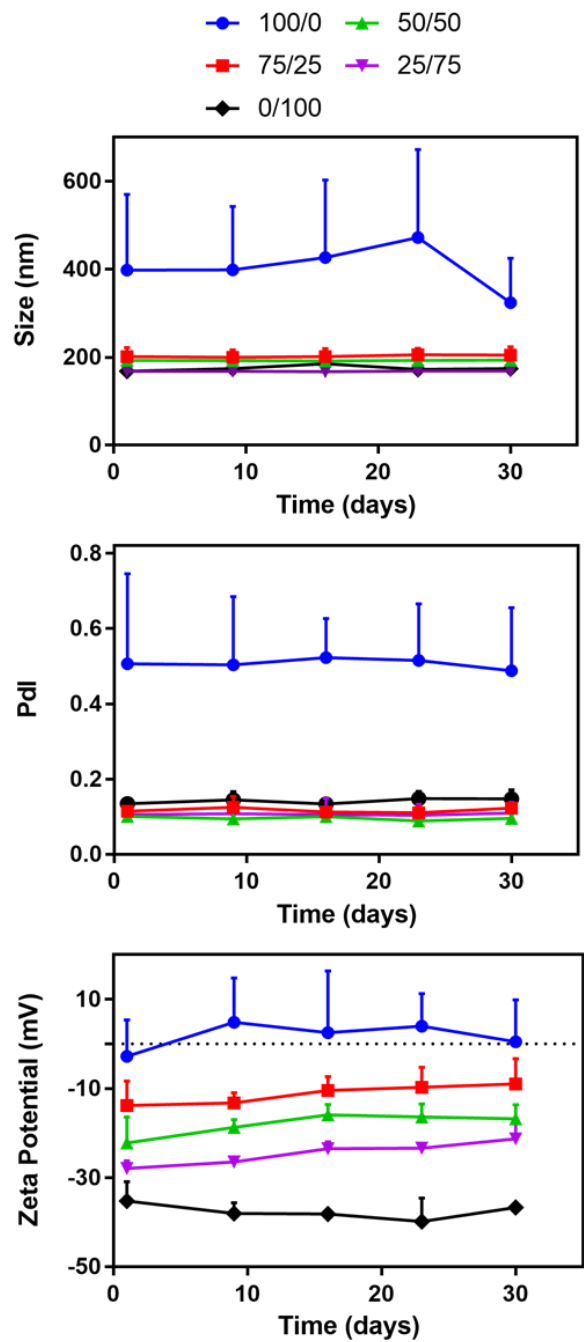


Figure S3. Size, Pdl and Z-potential (Z) measurements of the mannosylated nanoparticles at different times after the preparation, by dynamic light scattering (n=3).