

Supporting information

to

Naked Micelles: Well-Defined Polymer Nanoparticles from photo-cleavable block copolymer micelles

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Supporting Figures

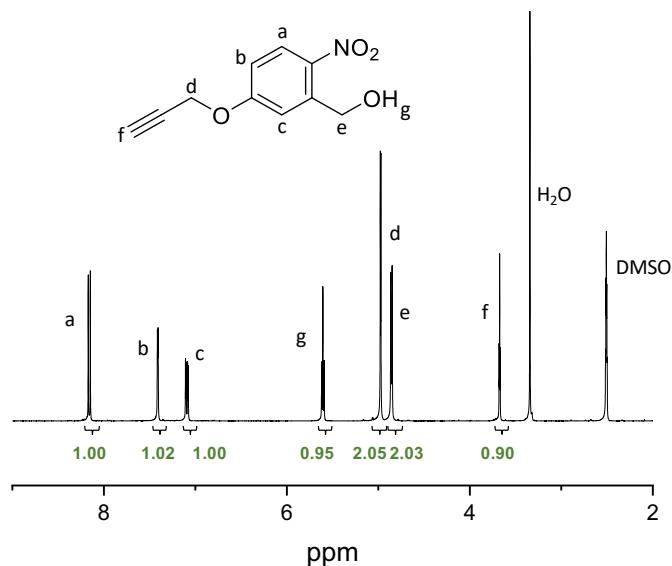


Figure S1: ^1H -NMR of 5-propargylether-2-nitrobenzyl alcohol

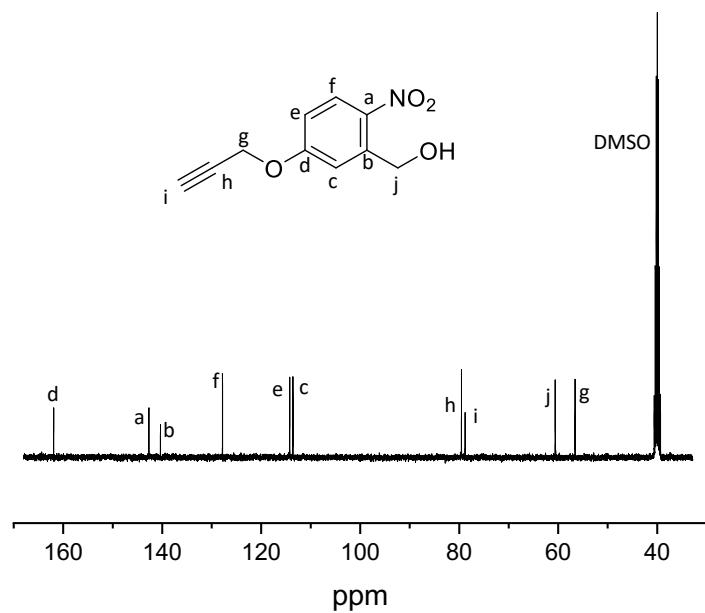


Figure S2 ^{13}C -NMR of 5-propargylether-2-nitrobenzyl alcohol

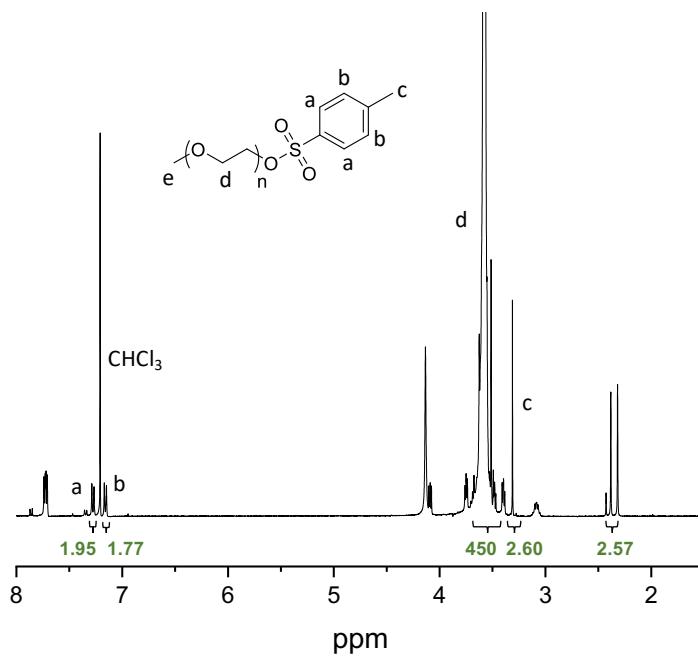


Figure S3 ^1H -NMR of PEO-OTs

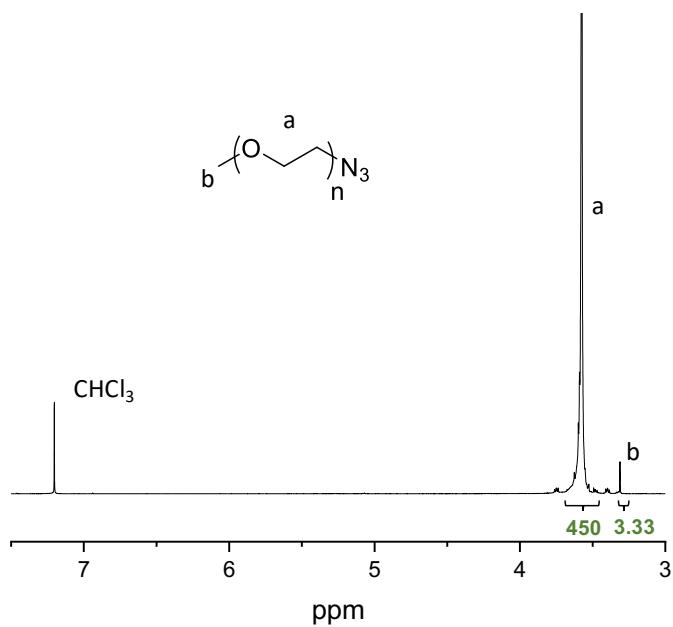


Figure S4 ^1H -NMR of PEO- N_3

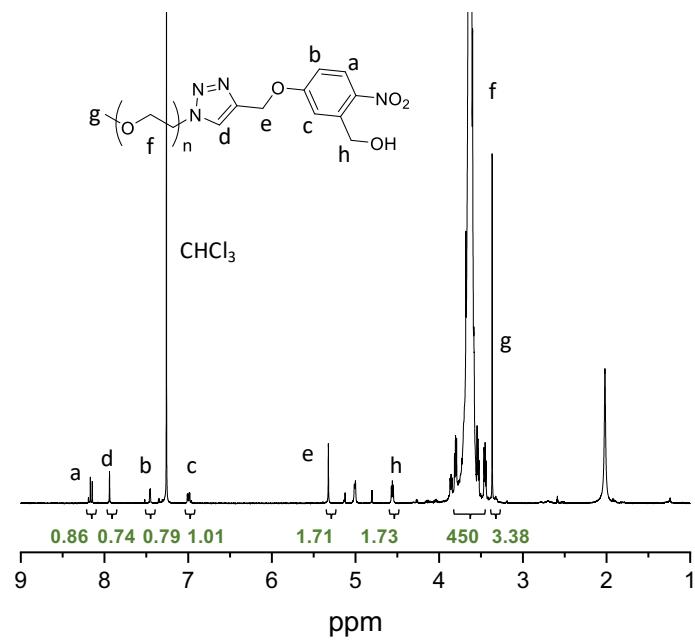


Figure S5 ^1H -NMR of PEO-ONB-OH

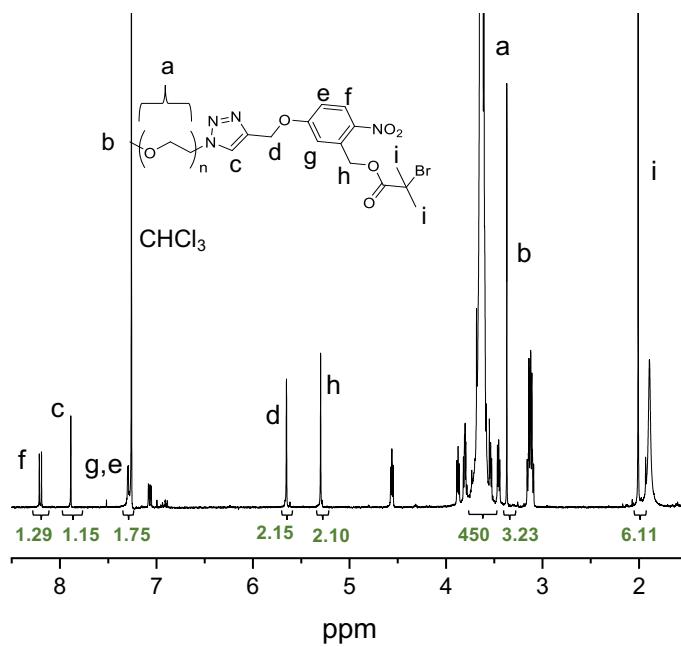


Figure S6 ¹H-NMR of PEO-ONB-Br

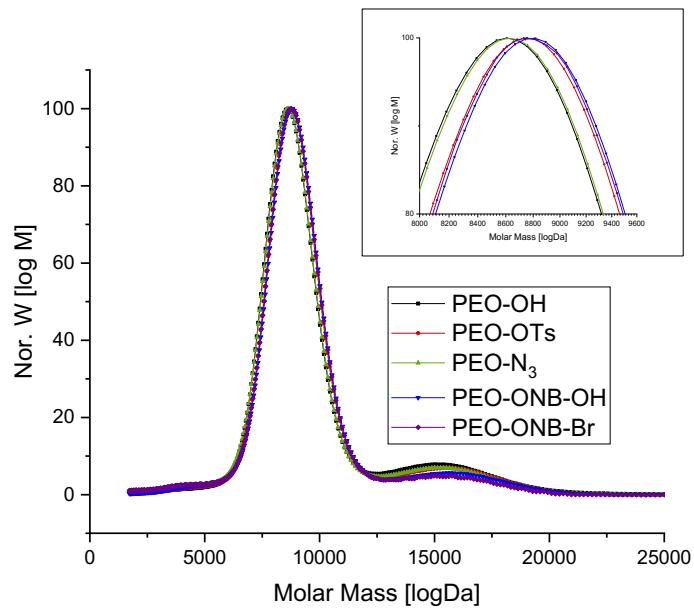


Figure S7 GPC traces with inset of PEO₁₁₃-OH, PEO₁₁₃-OTs, PEO₁₁₃-N₃, PEO₁₁₃-ONB-OH and PEO₁₁₃-ONB-Br

Table S1 Molecular weight and polydispersity of PEO₁₁₃-OH, PEO₁₁₃-OTs, PEO₁₁₃-N₃, PEO₁₁₃-ONB-OH and PEO₁₁₃-ONB-Br

BCP	M _n ^a	D
PEO ₁₁₃ -OH	8,400	1.07
PEO ₁₁₃ -OTs	8,550	1.04
PEO ₁₁₃ -N ₃	8,350	1.02
PEO ₁₁₃ -ONB-OH	8,450	1.02
PEO ₁₁₃ -ONB-Br	8,900	1.10

^a Number average molecular weight and polymer dispersity measured by GPC using THF as the eluent and PS standards for calibration.

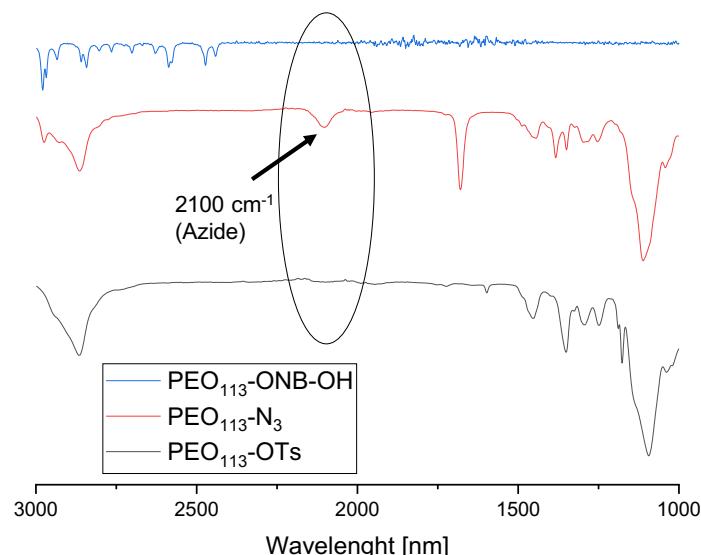


Figure S8 FT-IR of PEO functionalized with tosylate (black curve), azide (red curve) and ONB-OH through click chemistry (blue curve)

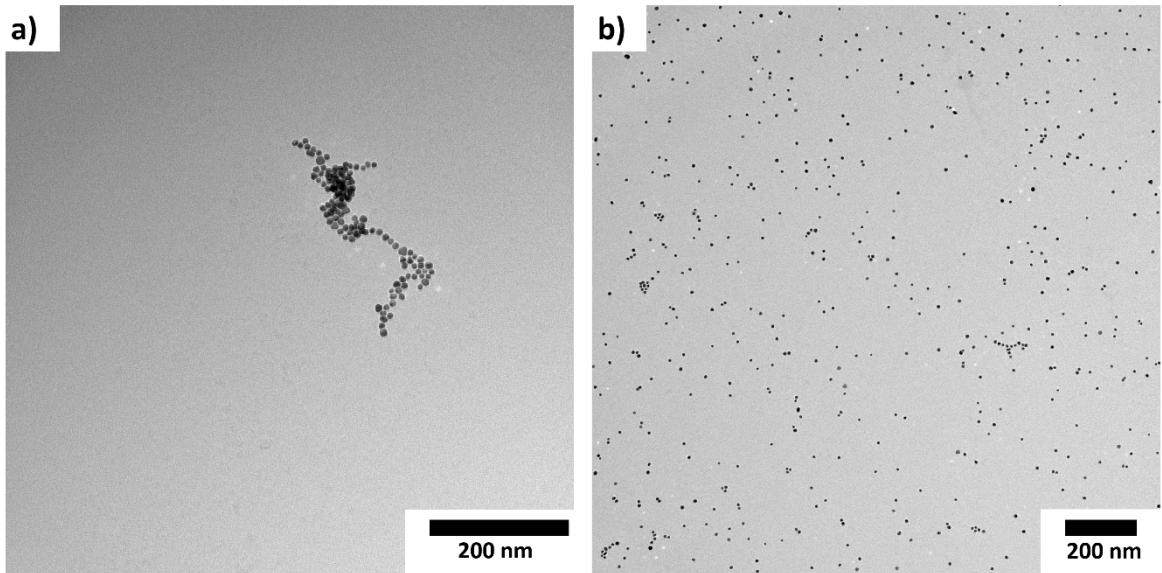


Figure S9 TEM Characterization of AuNPs; a) Negative batch, b) positive batch

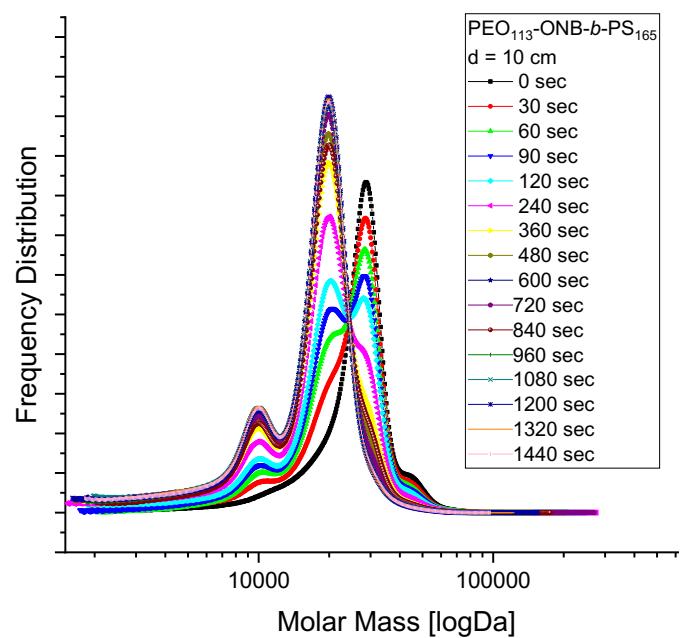


Figure S10 GPC traces of P2 at different irradiation times

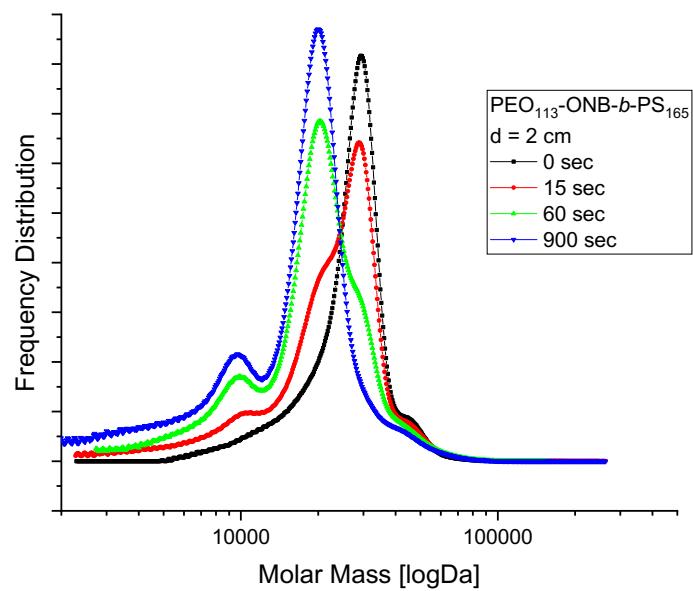


Figure S11 GPC traces of P2 micelles at different irradiation times

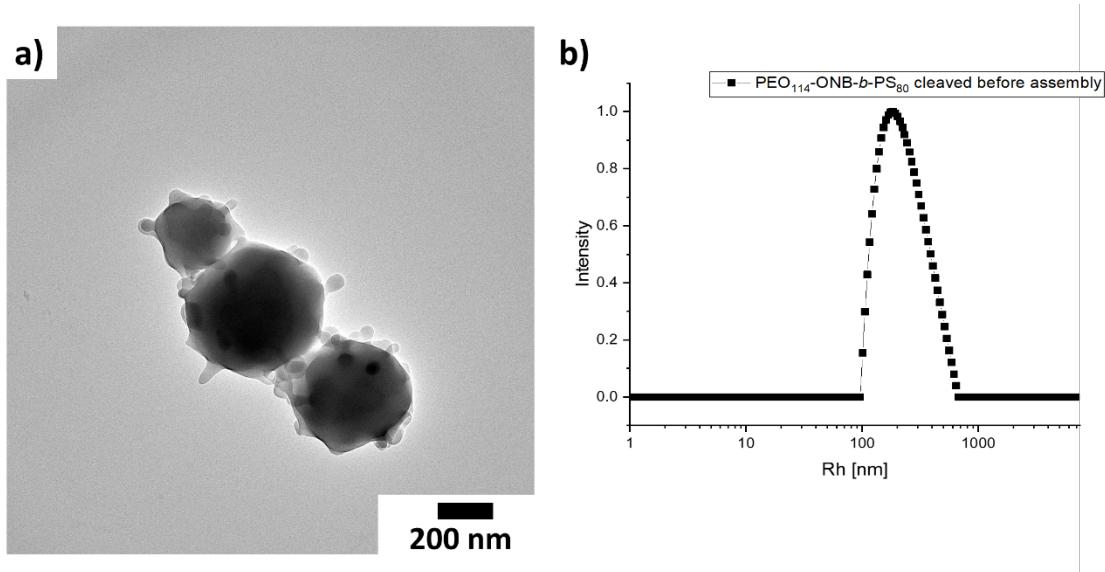


Figure S12 Characterization of PEO-ONB-*b*-PS corona stripped before assembly; a) TEM; b) DLS

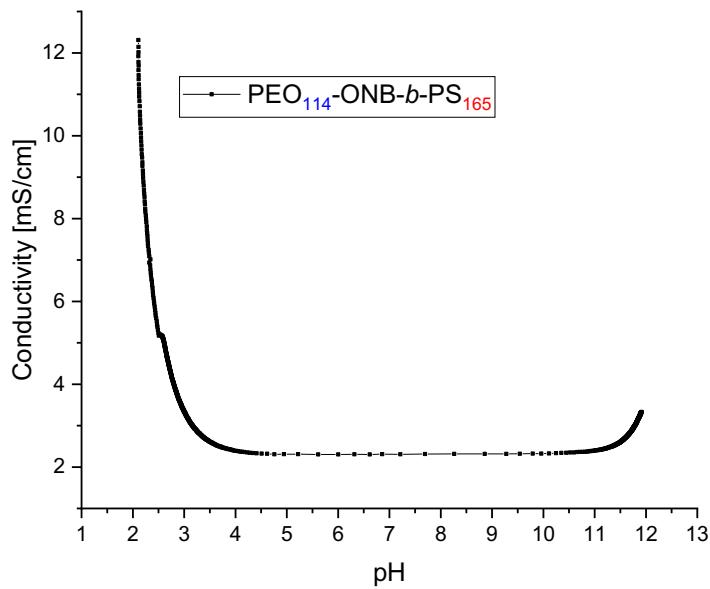


Figure S13 Conductivity titration of PEO₁₁₃-ONB-*b*-PS₁₆₅

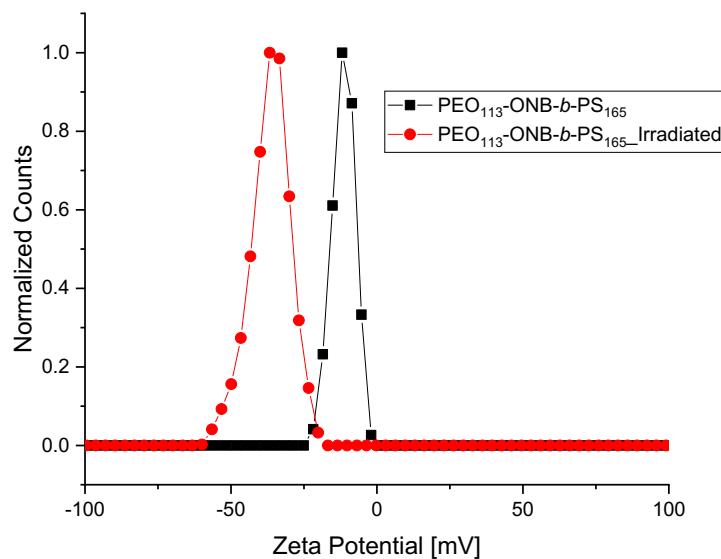


Figure S14 Zeta potential distribution of P2 before (black) and after (red) irradiation