Supporting Information

Supramolecular assembly of Toll-like receptor 7/8 agonist into multimeric water-soluble constructs enables superior immune stimulation in vitro and in vivo

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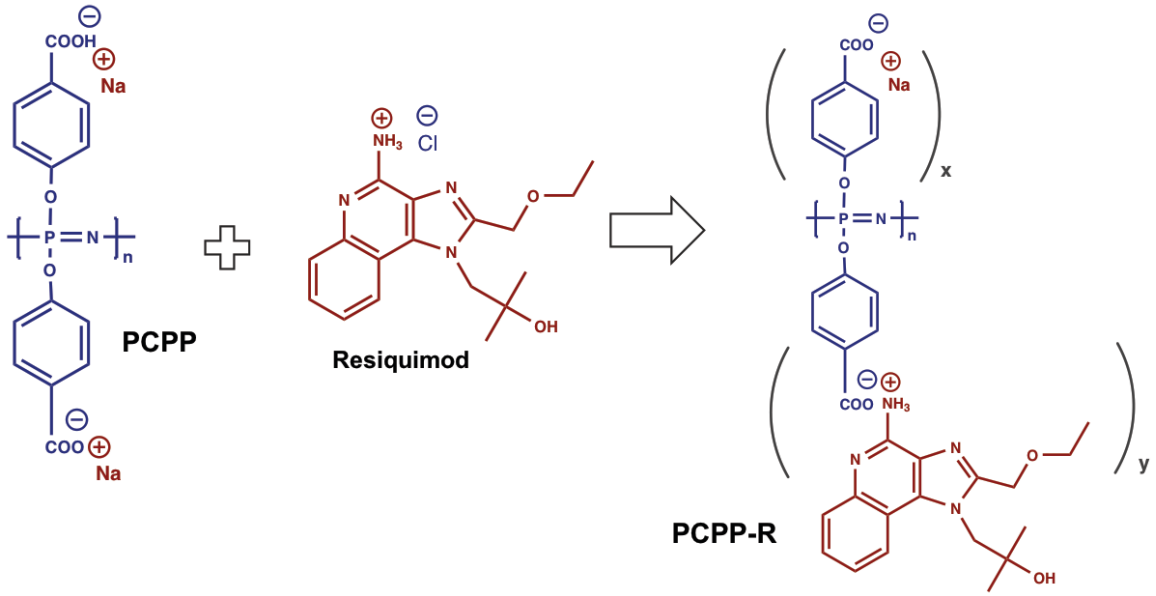
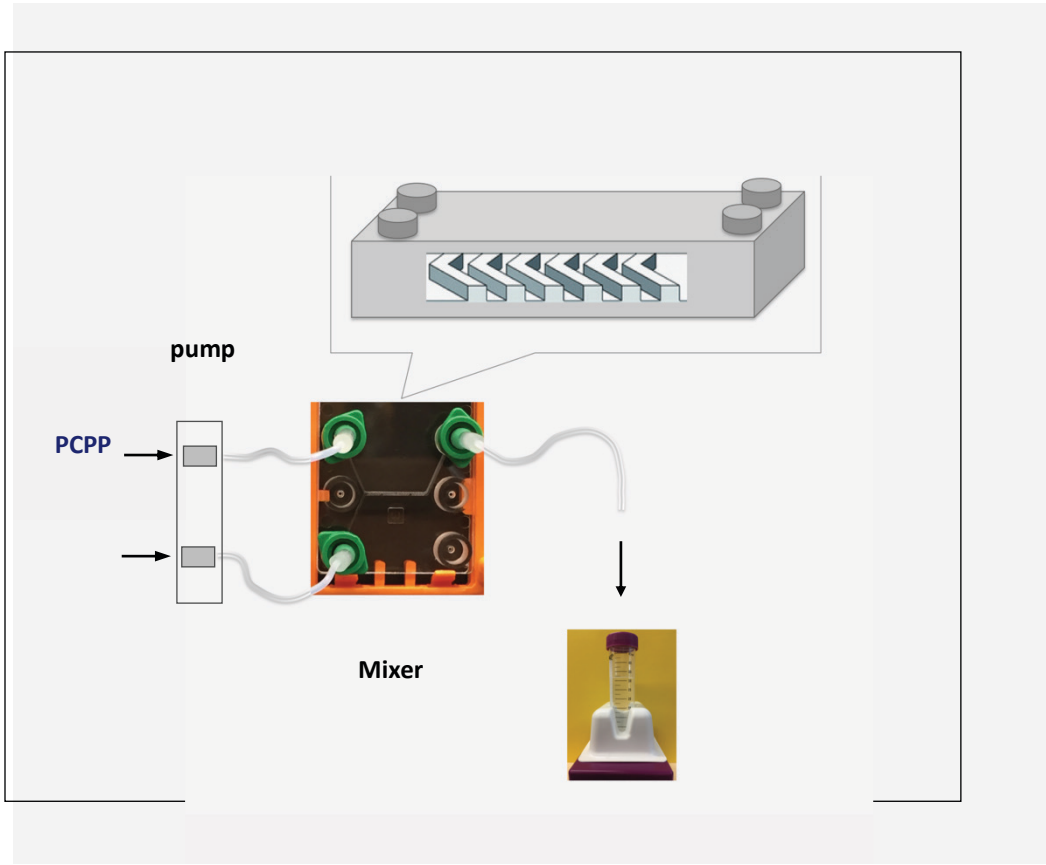
Scheme S1. Chemical reaction scheme of PCPP and RSQD.



Scheme S2. Experimental microfluidics set-up for preparing of PCPP-R formulations.



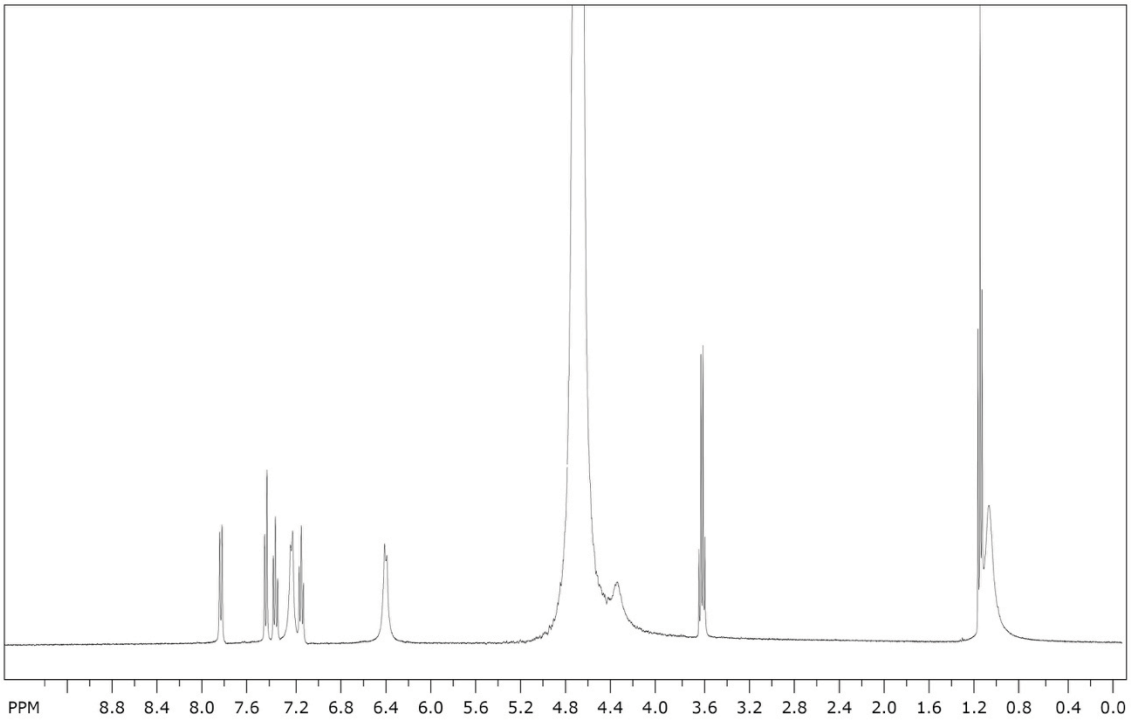


Figure S1. ^{1}H NMR spectrum of PCPP-RSQD formulation (RSQD:COO^{-}(PCPP)=1:1 (mol/equiv), 1M KOH in D_2O; peak assignments are in Fig. 2E).

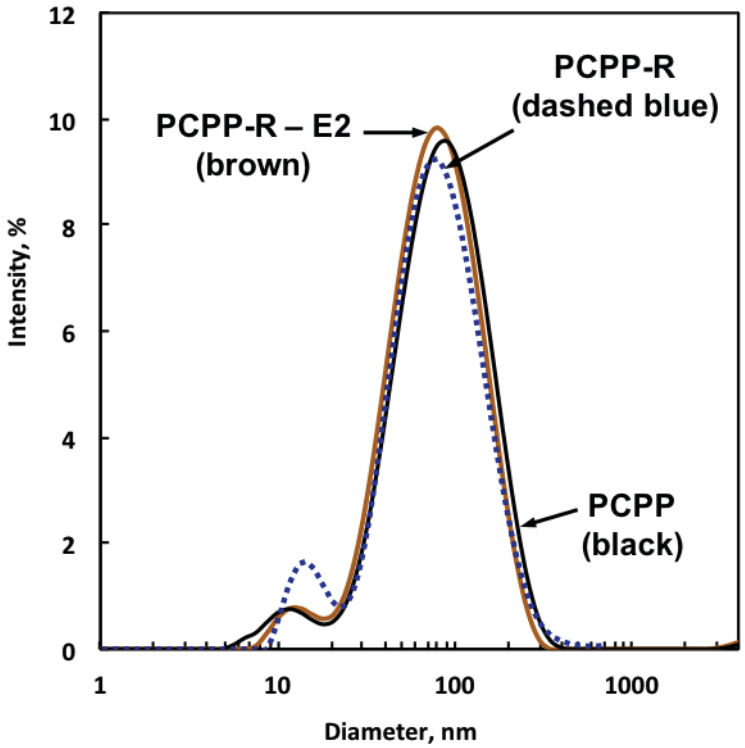


Figure S2. DLS profiles of PCPP-R – E2, PCPP-R and PCPP (0.125 mg/mL E2, 0.125 mg/mL PCPP, 0.062 mg/mL RSQD, PBS, pH 7.4).

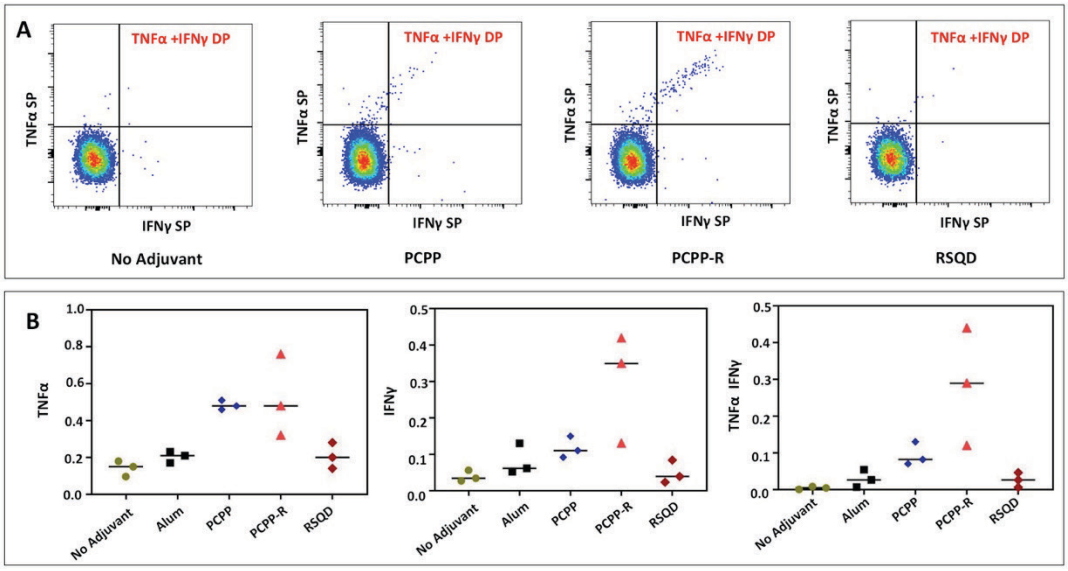


Figure S3. Cell mediated responses to E2 peptides as assessed *ex-vivo* in splenocytes derived from immunized BALB/c mice with various formulations: (A) representative FACS plots and (B) summary data of TNF-α single (Y axis), IFN-γ single (X axis) and TNF-α/IFN-γ double producing cells (top right quadrant).