A

Signal 1: DAD1 C, Sig=360,4 Ref=460,100

```
RetTime  Type    Area      Amt/Area    Amount   Grp    Name
 [min]          [mAU*s]                [mg/ml]
-------|------|----------|----------|----------|--|------------------
 6.323 BB      7.55517    0.00000    0.00000    SGI

Totals :                             0.00000
```
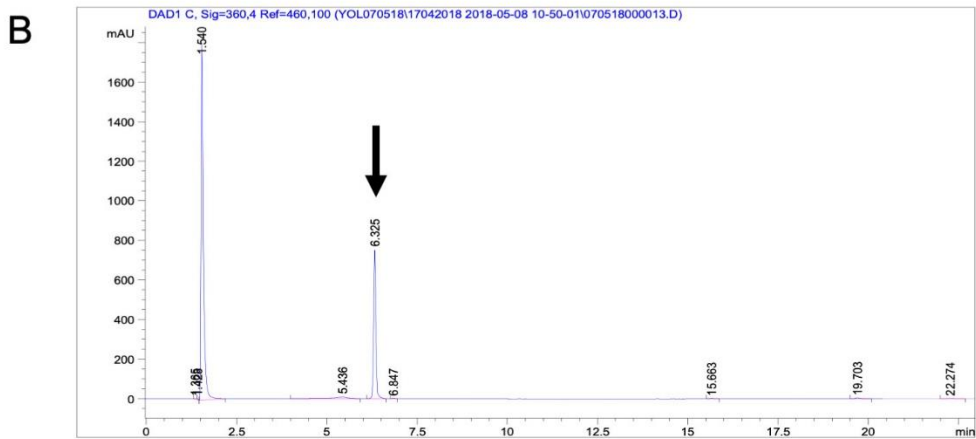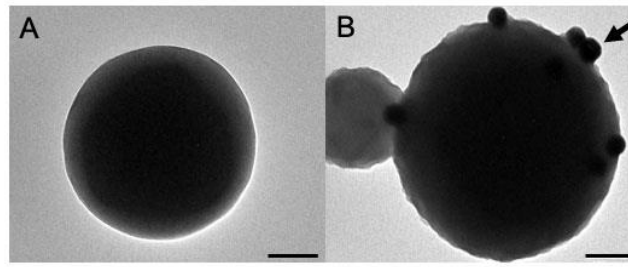

B

Signal 1: DAD1 C, Sig=360,4 Ref=460,100

```
RetTime  Type    Area        Amt/Area      Amount     Grp    Name
 [min]          [mAU*s]                    [mg/ml]
-------|------|----------|----------|----------|--|------------------
 6.325 BB      3269.34546  2.98388e-5  9.75532e-2    SGI

Totals :                               9.75532e-2
```

Figure S1. HPLC detection of NP-loaded SGI-1027. Representative HPLC chromatograms of NP ethanolic extracts. A. Void NP; B. SGl-1027-loaded, FLAGPP1-functionalized NP. The arrow indicates the SGI-1027 peak

Figure S2. Immunogold TEM analysis of HSANP surface functionalization. A. Unfunctionalized NP; B. FLAGPP1-functionalized NP. The arrow indicates a labelled FLAGPP1 peptide. Bar = 100 nm
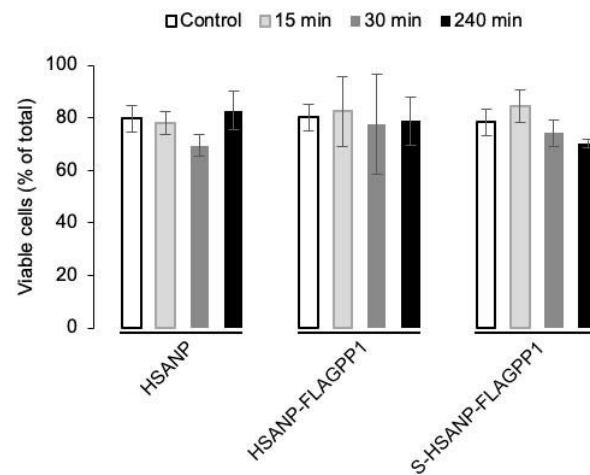

Figure S3. Viability of NP-challenged THP-1 macrophages. Length of challenge with NP is indicated above the graph. $n = 3$. Data are average ± SD. HSANP, void NP; HSANP-FLAGPP1, functionalized void NP; S-HSANP-FLAGPP1, SGI-1027-loaded and functionalized NP
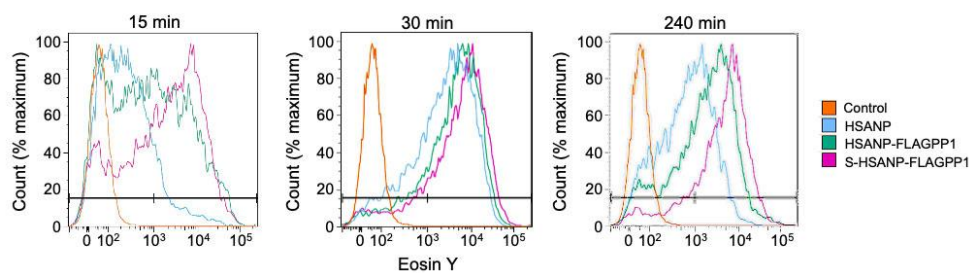

Figure S4. NP internalization in THP-1 macrophages. Count/fluorescence plots of flow cytometry analysis of cell-associated eosin Y fluorescence at the indicated length of

challenge with different NP, each represented by the colour code indicated on the right. Time zero control is used as reference in all plots. HSANP, void NP; HSANP-FLAGPP1, functionalized NP; S-HSANP-FLAGPP1, SGI-1027-loaded and functionalized NP
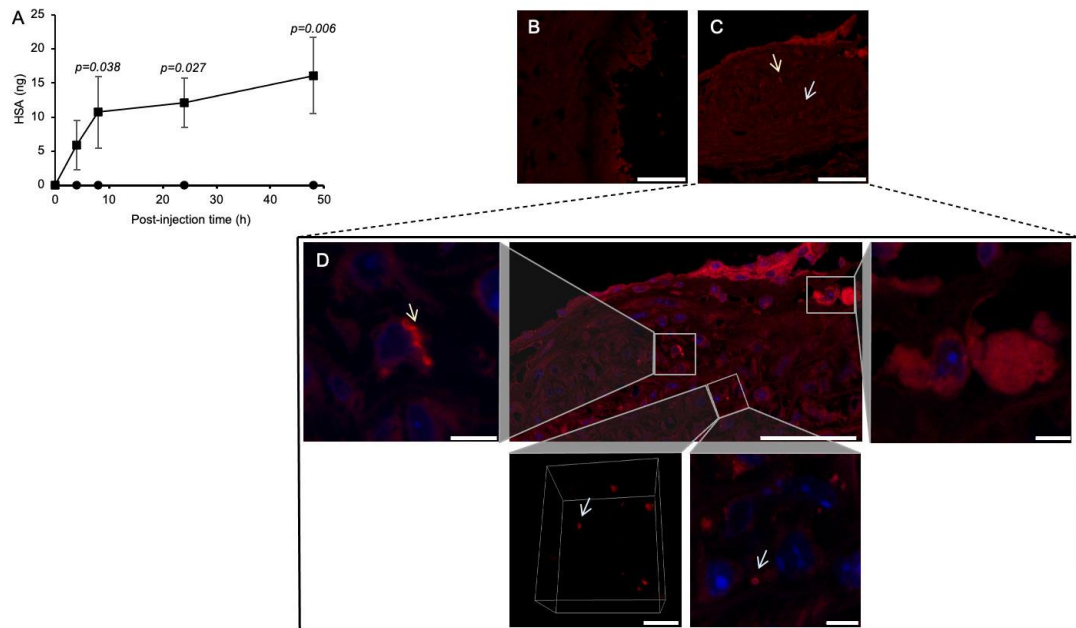
Figure S5. Subcutaneously injected HSANP colonize the peripheral circulation and the aortic root lesion. A. Time-course of detectable HSANP in mouse peripheral blood after subcutaneous injection. Squares and circles, HSANP-injected and PBS (vehicle)-injected mice, respectively (n = 3 each). Significance is shown for comparisons with the 4 h time point. ANOVA and Bonferroni post hoc test; (B-D) confocal images of immunogold-labelled FLAGPP1. B. vehicle-treated mice. C. S-HSANP-FLAGPP1-treated mice. D. zoomed-in details of the Z-stack for the regions of interest, including a 3D projection of one intracellular signal. Arrows indicate the dark red signal above autofluorescence (B). Notice the immunogold signal at the edge of and within the atheroma. Bar in B, C is 50 um. Bar in zoom-in pictures is 5 um
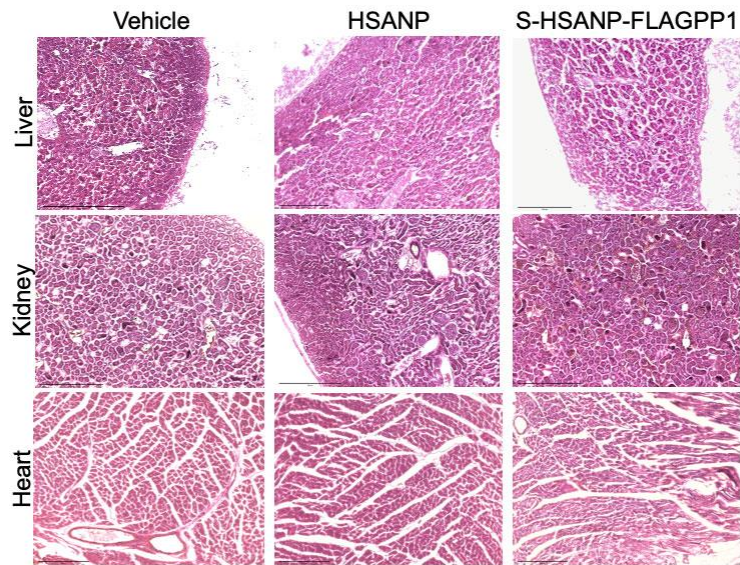
Figure S6. Effects of NP on non-target tissues. Representative HE staining of liver, kidney and heart. Bar = 200 nm. HSANP, void NP; S-HSANP-FLAGPP1, SGI-1027-loaded and functionalized NP