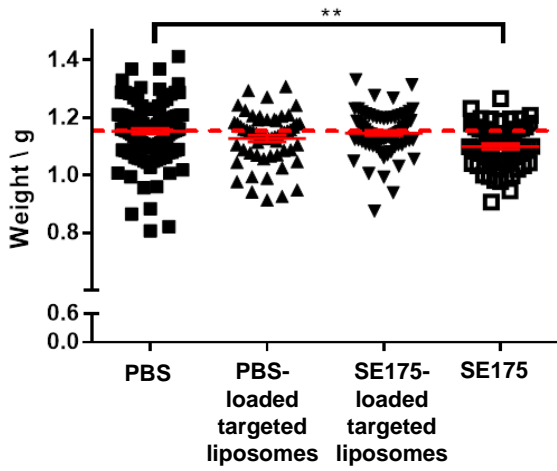


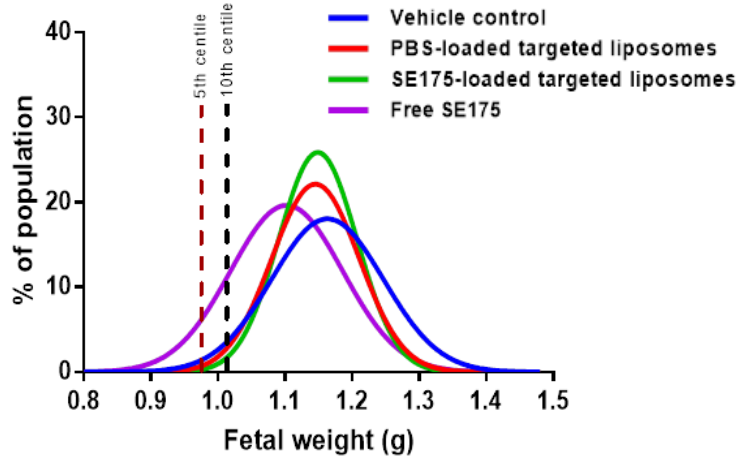
Supplementary Figure 1: Identification of the placental-homing peptide NKGLRNK

[A-U] Maternal organs and fetuses from pregnant C57BL/6J mice collected at E18.5, following tail vein injection of Rh-CNKGLRNK (red)-decorated liposomes composed of NBD-labelled lipids (green), 6, 24 or 48h prior to tissue harvest. Cardiac perfusion was performed to remove unbound peptide; organs were removed and assessed by fluorescence microscopy. Blue, DAPI (nuclei). Scale bar = 50 μ m. Tissues from n = 3 mice per treatment group were examined. Representative images are shown.

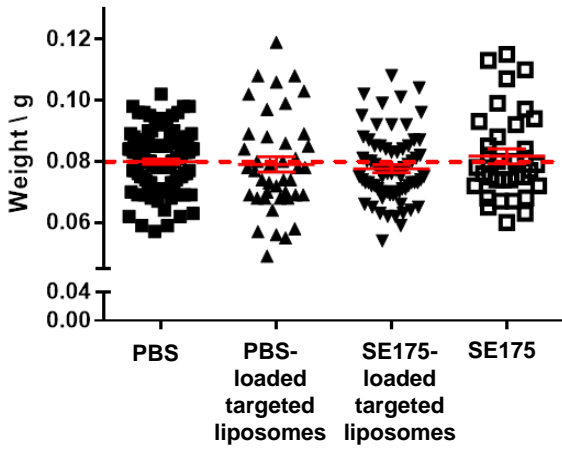
[A] Fetal weight



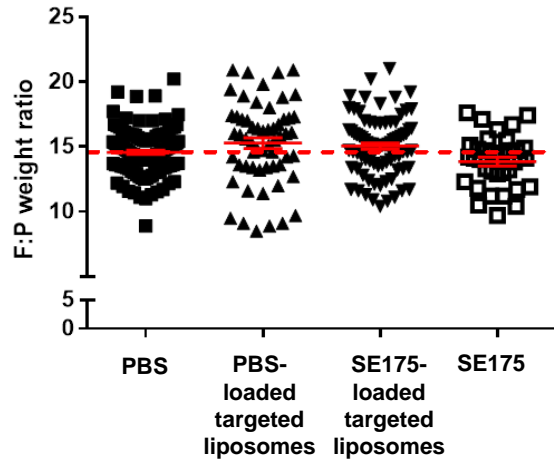
[B] Fetal weight distribution



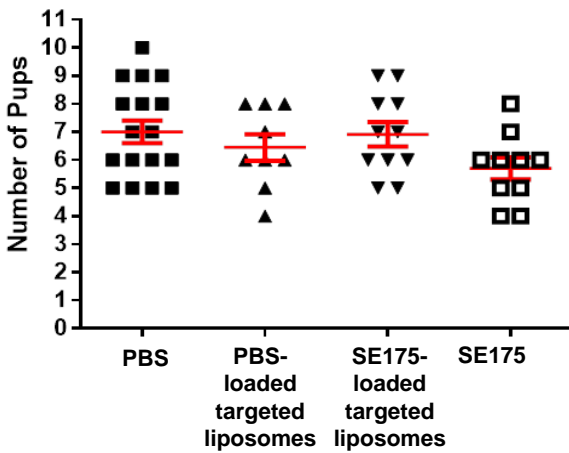
[C] Placental weight



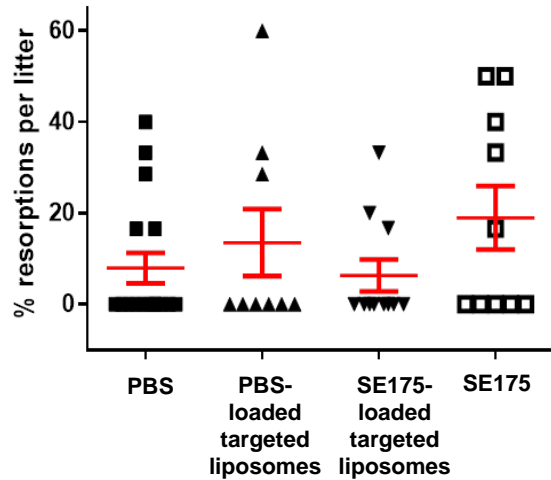
[D] Fetal:placental weight ratio



[E] Litter size



[F] Percent of resorptions per litter



Supplementary Figure 2: Targeted delivery of SE175 has no effect on fetal or placental weight in C57BL/6J mice

C57BL/6J mice (N = dams, n = fetuses) were intravenously injected with 100 μ L of PBS (N = 17, n = 115; closed black square), CNKGLRNK-decorated liposomes containing PBS (N = 9, n = 58; upward facing black triangle), CNKGLRNK-decorated liposomes containing SE175 (N = 11, n = 72; downward facing black triangle) or free SE175 (N = 10, n = 56; open black square). Horizontal red dashed line represents vehicle control mean. **[A]** Fetal weights, **[B]** curve fits to fetal weight distributions, **[C]** placental weights, **[D]** fetal:placental weight ratio (F:P), **[E]** litter size, **[F]** percent of resorptions per litter. Data points represent individual fetuses or placentas; mean \pm SEM. Means were compared using one-way ANOVA with Dunnett's *post hoc* test. **P<0.001.

Supplementary Figure 3: Targeted delivery of SE175 does not alter litter size or resorption rate in eNOS^{-/-} mice

eNOS^{-/-} (N = dams, n = fetuses) were intravenously injected with 100 μ L of PBS (N = 14, n = 113; closed black square), CNKGLRNK-decorated liposomes containing PBS (N = 9, n = 67; upward facing black triangle), CNKGLRNK-decorated liposomes containing SE175 (N = 10, n = 68; downward facing black triangle) or free SE175 (N = 8, n = 57; open black square). Data from PBS-treated C57BL/6J mice are shown for comparison (N = 17, n = 115; closed black circle). **[A]** Litter size **[B]** Percent of resorptions per litter. Mean \pm SEM.