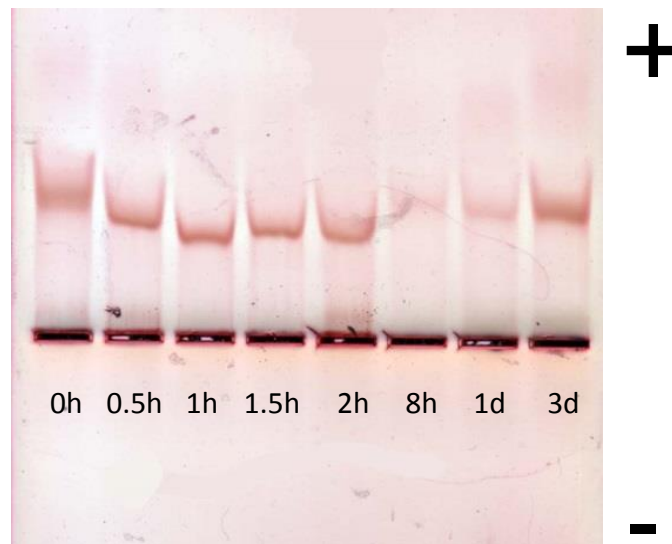


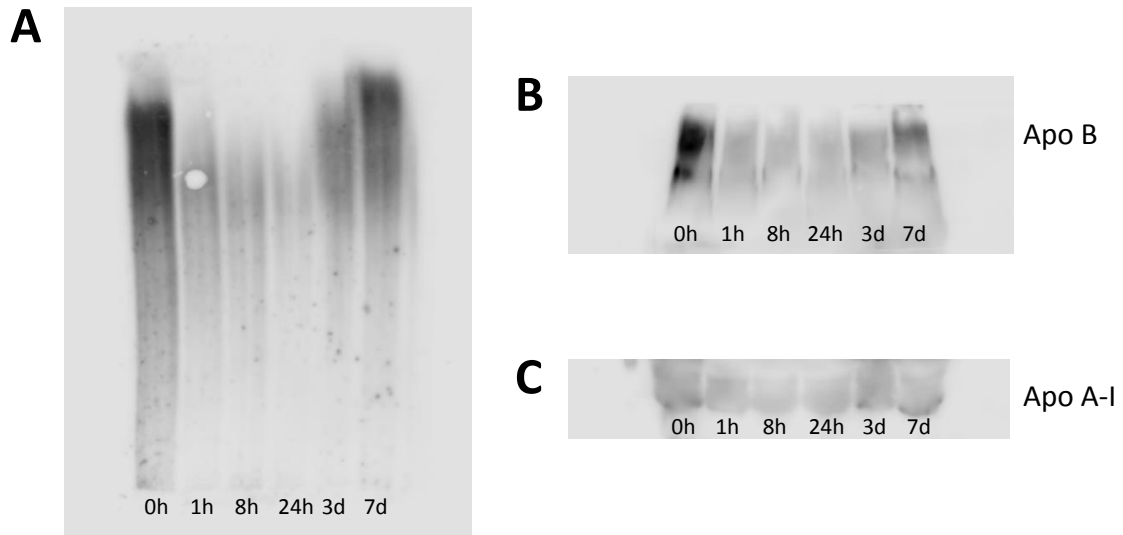
Supplemental Data

Novel Fatty Acyl ApoE Mimetic Peptides Have Increased Potency To Reduce Plasma Cholesterol In Mice And Macaques

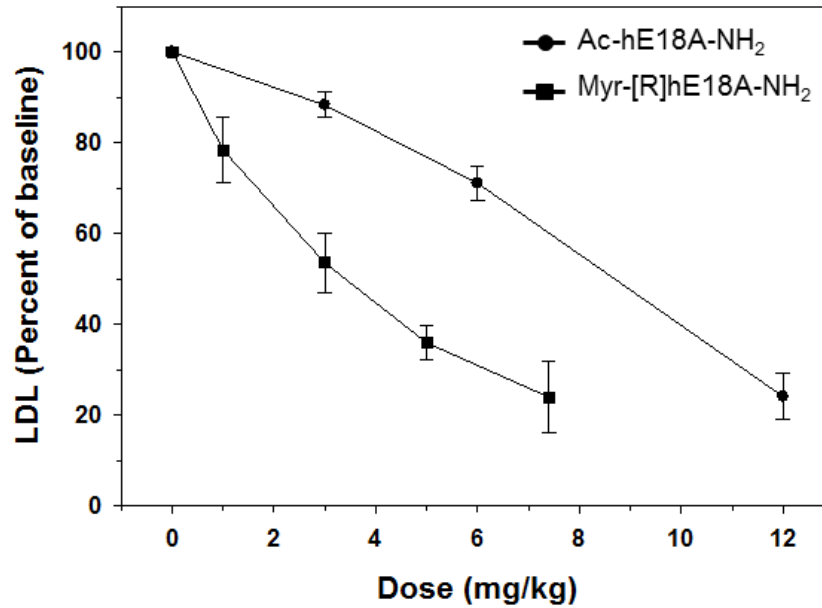
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Supplemental Figure S1: Myr-[R]hE18A-NH₂ retards the electrophoretic mobility of LDL isolated from cynomolgus monkeys. Monkeys received an IV infusion of Myr-[R]hE18A-NH₂ (7.4mg/kg). Blood was collected at baseline and at time points up to 3d after peptide administration. Plasma samples were diluted with loading buffer containing 10% glycerol, loaded on an agarose gel, subjected to electrophoresis and stained with oil red O.



Supplemental Figure S2: Effects of Myr-[R]hE18A-NH₂ on apolipoprotein levels in plasma of cynomolgus monkeys. Plasma samples obtained at baseline and after injection of the peptide were loaded on an agarose gel. Proteins were transferred to nitrocellulose membranes and probed for apoB (**Panel A**). Plasma samples were also resolved on SDS gels. ApoB protein was reduced after peptide administration and returned to baseline after 7d (Panel B). A modest, but non-significant, reduction in apoA-I levels mirrored changes in plasma HDL levels over this time period (Panel C).



Supplemental Figure S3: Myr-[R]hE18A-NH₂ is more potent than Ac-hE18A-NH₂ in reducing plasma LDL. Plasma samples were collected from cynomolgus monkeys 24h after administration of Myr-[R]hE18A-NH₂ (0-7.4mg/kg) or Ac-hE18A-NH₂ (0-12mg/kg). 7.4mg/kg Myr-[R]hE18A-NH₂ elicited an approximate 75% reduction in LDL while 12mg/kg Ac-hE18A-NH₂ was required for this response. N=4 per peptide dose.