Demonstrate further your drug benefits on atherosclerosis reduction with radio-tracer based methods in validated athero models

Key objectives:

- In vivo validation of the anti-atherosclerotic effect of your compounds
- Highlights additional benefits of your drug through radio-tracer based in vivo experiments
- Take advantage of the VCAM-1 imaging technique to detect inflammation inside atherosclerotic plaques

PROOF OF EFFICACY
IN VALIDATED MODELS WITH ACTIVE COMPARATORS

- Apolipoprotein E knock out or LDL-receptor knock out mice
- Western or Paigen diet
- Active comparators: ezetimibe, others on request

1. REDUCTION IN HYPERCHOLESTEROLEMIA AND PLAQUE SIZE

Ezetimibe substantially reduces hypercholesterolemia and atherosclerosis plaque area in apoE ko mice

2. BIOMARKER OF PLAQUE INFLAMMATION (VCAM-1 UPTAKE)

Ezetimibe strongly reduces atherosclerosis and plaque inflammation

3. VCAM-1 IMAGING TO QUANTIFY INFLAMMATION INSIDE PLAQUES

Ezetimibe significantly reduces VCAM-1 expression in aortic valves and ascending aortas

4. REDUCTION OF LDL-C AND ITS EXCRETION OUT OF THE BODY

Ezetimibe promotes anti-atherosclerotic mechanisms through higher LDL-cholesterol catabolism and LDL-derived cholesterol fecal excretion

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