

## Supplemental materials

**Supplemental Table 1.** Antioxidant activity of recombinant apolipoproteins against LDL in vitro.

Group	LDL (mg/L)	CuSO <sub>4</sub> (μM)	ApoA-I (mg/L)	nmol MDA/mg LDL	IC <sub>50</sub> (mg/L)
<b>Cu<sup>2+</sup> only</b>	100	5	0	41.19±1.33	
<b>ApoA-Iwt</b>	100	5	10	39.91±0.77	263.95
	100	5	50	33.84±1.99	
	100	5	100	28.77±2.50	
	100	5	300	21.02±1.06	
<b>ApoA-Iwt+GSH</b>	100	5	10	36.84±2.71	238.37
	100	5	50	31.68±1.90	
	100	5	100	24.98±2.04	
	100	5	300	19.41±4.46	
<b>ApoA-I(N74C)</b>	100	5	10	37.90±0.88	72.19
	100	5	50	30.13±1.22	
	100	5	100	14.97±1.55	
	100	5	300	4.57±0.94	
<b>ApoA-I<sub>Milano</sub></b>	100	5	10	37.90±1.19	66.99
	100	5	50	26.40±2.12	
	100	5	100	10.83±1.51	
	100	5	300	6.79±1.04	

Data expressed as mean ± SD. Data were averaged from three independent assays.

**Supplemental Table 2.** Serum PON arylesterase activity 24 hours post rHDLs injection.

<b>Group</b>	<b>U/mg</b>
<b>Saline</b>	184.37 ±13.41
<b>SPC</b>	193.93± 14.96
<b>rHDLwt</b>	195.86± 39.32
<b>rHDL74</b>	208.30± 10.38
<b>rHDLmilano</b>	201.94± 10.85