

Table 1 Comparison of the candidates of redox-IDX-apoE among apoE phenotype groups

apoE phenotype	E2/E3	E3/E3	E2/E4	E3/E4	E4/E4
Cys number/apoE molecule	1.5	1	1	0.5	0
n (male/female)	21 (9/12)	218(92/126)	4 (1/4)	34 (22/12)	3 (2/1)
age	58.3 ± 17.5	51.8 ± 17.0	53.8 ± 18.5	56.0 ± 16.7	48.7 ± 15.0
apoAI (mg/dL)	147.6 ± 6.3	146.6 ± 2.1	129.3 ± 8.7	149.4 ± 5.1	141.3 ± 6.0
apoAII (mg/dL)	31.6 ± 1.9	31.7 ± 0.5	30.6 ± 2.1	32.7 ± 1.4	35.6 ± 3.4
HDL-C (mg/dL)	61.2 ± 4.6	56.8 ± 1.3	48.2 ± 2.7	56.0 ± 3.0	49.2 ± 8.3
LDL-C (mg/dL)	85.4 ± 6.0 *	106.0 ± 2.1	136.8 ± 18.2 ##	98.7 ± 4.2	96.0 ± 9.3
non-HDL-C (mg/dL)	115.6 ± 7.9	136.7 ± 2.6	172.1 ± 24.0 #	135.1 ± 7.6	131.5 ± 10.9
TG (mg/dL)	147.4 ± 30.3	154.9 ± 7.3	186.5 ± 56.2	184.3 ± 29.9	153.3 ± 38.8
CRP (mg/dL)	0.288 ± 0.112	0.342 ± 0.069	0.312 ± 0.099	0.460 ± 0.105	0.223 ± 0.199
HbA1c (%)	6.00 ± 0.22	5.92 ± 0.08	5.53 ± 0.16	5.80 ± 0.17	5.57 ± 0.22
total-apoE (mg/dL)	3.63 ± 0.33	2.91 ± 0.09	3.55 ± 0.18	2.89 ± 0.25	1.37 ± 0.09
red-apoE (mg/dL)	0.56 ± 0.07	0.69 ± 0.03	0.52 ± 0.06	0.58 ± 0.08	} N/A
roxi-apoE (mg/dL)	2.16 ± 0.21 ***	1.40 ± 0.05	1.76 ± 0.11	1.11 ± 0.11 ###	
oxi-apoE (mg/dL)	0.91 ± 0.11	0.82 ± 0.03	1.26 ± 0.09	1.20 ± 0.11 ***	
red/total	0.161 ± 0.015 ***	0.233 ± 0.006	0.147 ± 0.014	0.187 ± 0.016 *	} N/A
roxi/total	0.589 ± 0.022 ***	0.485 ± 0.007	0.497 ± 0.024	0.392 ± 0.023 ****###	
oxi/total	0.249 ± 0.014	0.282 ± 0.004	0.356 ± 0.015 #	0.421 ± 0.017 ****###	
red/oxi	0.685 ± 0.075	0.883 ± 0.031	0.412 ± 0.035	0.463 ± 0.042 ***	
red/roxi	0.297 ± 0.037 **	0.544 ± 0.022	0.301 ± 0.041	0.613 ± 0.087 ##	
roxi/oxi	2.614 ± 0.237 ***	1.884 ± 0.057	1.411 ± 0.122 #	1.024 ± 0.088 ****###	
red/[roxi + oxi]	0.200 ± 0.022 **	0.322 ± 0.011	0.173 ± 0.019	0.246 ± 0.025 *	
[red + roxi]/oxi	3.298 ± 0.265	2.767 ± 0.068	1.824 ± 0.117 #	1.487 ± 0.090 ****###	
[red + oxi]/roxi	0.747 ± 0.070 *	1.179 ± 0.040	1.026 ± 0.100 †	1.941 ± 0.225 ****###	

All parameters and ages of subjects are presented as the mean ± SE and the mean ± SD, respectively.

red, reduced form; roxi, reversible oxidized form; oxi, oxidized form. N/A, not applicable.

*, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$ (vs E3/E3). #, $p < 0.05$; ##, $p < 0.01$; ###, $p < 0.001$ (vs E2/E3). †, $p < 0.05$ (vs E3/E4).