

Supplementary Table S1: quantification of endogenous NO₂-OA and NO₂-LA in IHD patients' plasma by standard addition method

Sample	NO ₂ -OA			NO ₂ -LA		
	Regression equation	x-intercept	Endogenous conc. (nM)	Regression equation	x-intercept	Endogenous conc. (nM)
P1	$y = 0.0051x + 0.3301$	-64.73	12.95	$y = 0.0042x + 0.0462$	-11.00	2.20
P2	$y = 0.0044x + 0.3145$	-71.48	14.30	$y = 0.0035x + 0.0764$	-21.83	4.37
P3	$y = 0.0032x + 0.5034$	-157.31	31.46	$y = 0.0048x + 0.0433$	-9.02	1.80
P4	$y = 0.0061x + 0.3301$	-54.11	10.82	$y = 0.0048x + 0.0998$	-20.79	4.16
P5	$y = 0.0052x + 0.4904$	-94.31	18.86	$y = 0.0051x + 0.0795$	-15.59	3.12
P6	$y = 0.0033x + 0.4037$	-122.33	24.47	$y = 0.0021x + 0.0414$	-19.71	3.94
P7*	$y = 0.0041x + 0.619$	-150.98	30.20	$y = 0.0025x + 0.0693$	-27.22	5.54
P8	$y = 0.003x + 0.2042$	-68.07	13.61	$y = 0.0048x + 0.0171$	-3.56	0.71
P9	$y = 0.0057x + 0.601$	-105.44	21.09	$y = 0.0021x + 0.0282$	-13.43	2.69
P10	$y = 0.0044x + 0.2935$	-66.70	13.34	$y = 0.0035x + 0.0213$	-6.09	1.22
P11*	$y = 0.0037x + 0.608$	-164.32	32.86	$y = 0.0007x + 0.0735$	-105.00	21

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	Regression equation	x-intercept	Endogenous conc. (nM)	Regression equation	x-intercept	Endogenous conc. (nM)
P12	$y = 0.0048x + 0.4207$	-87.65	17.53	$y = 0.002x + 0.0458$	-22.90	4.58
P13	$y = 0.0066x + 0.5088$	-77.09	15.42	$y = 0.004x + 0.0521$	-13.03	2.61
P14	$y = 0.0057x + 0.8791$	-175.82	35.16	$y = 0.0043x + 0.0375$	-8.72	1.74
P15	$y = 0.0026x + 0.4112$	-158.15	31.63	$y = 0.0038x + 0.0554$	-14.58	2.92
P16	$y = 0.0032x + 0.4564$	-142.63	28.53	$y = 0.0035x + 0.0694$	-19.83	3.97
P17	$y = 0.007x + 0.3303$	-47.19	9.44	$y = 0.0054x + 0.0656$	-12.15	2.43
P18	$y = 0.0031x + 0.5078$	-163.81	32.76	$y = 0.0023x + 0.0512$	-22.26	4.45
P19	$y = 0.0029x + 0.333$	-144.83	22.97	$y = 0.0018x + 0.0258$	-14.33	2.87
P20	$y = 0.0059x + 0.4888$	-82.85	16.57	$y = 0.003x + 0.0495$	-16.50	3.30
P21	$y = 0.0036x + 0.3903$	-108.42	21.68	$y = 0.0025x + 0.033$	-13.20	2.64
P22*	$y = 0.0045x + 0.5269$	-117.09	23.42	$y = 0.0024x + 0.085$	-35.42	7.08

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	Regression equation	x-intercept	Endogenous conc. (nM)	Regression equation	x-intercept	Endogenous conc. (nM)
P23	$y = 0.0082x + 0.6788$	-82.78	16.56	$y = 0.0023x + 0.0389$	-16.91	3.38
P24	$y = 0.0049x + 0.1774$	-36.20	7.24	$y = 0.0032x + 0.0193$	-6.03	1.21
P25	$y = 0.0054x + 0.6526$	-120.85	24.17	$y = 0.0029x + 0.0236$	-19.53	3.91
P26	$y = 0.0018x + 0.3607$	-200.39	40.08	$y = 0.0033x + 0.0408$	-12.36	2.47
P27	$y = 0.0039x + 0.3262$	-83.64	16.73	$y = 0.0021x + 0.0356$	-16.95	3.39
P28	$y = 0.0021x + 0.468$	-222.86	44.57	$y = 0.0024x + 0.041$	-17.21	3.44

* Outliers in NO₂-LA levels that were removed in statistical analysis

Supplementary Table S2: Quantification of endogenous NO₂-OA and NO₂-LA in healthy controls' plasma by standard addition method

Sample	NO ₂ -OA			NO ₂ -LA		
	Regression equation	x-intercept	Endogenous conc. (nM)	Regression equation	x-intercept	Endogenous conc. (nM)
C1	0.0053x + 0.345	-65.09	13.02	0.007x + 0.0596	-8.51	1.7
C2	y = 0.0037x + 0.1642	-44.38	8.88	y = 0.0023x + 0.0481	-20.91	4.18
C3	y = 0.0049x + 0.1368	-27.92	5.58	y = 0.0049x + 0.1053	-21.49	4.30
C4	y = 0.0027x + 0.2901	-107.44	21.49	y = 0.0053x + 0.0737	-13.91	2.78
C5	y = 0.0053x + 0.2536	-47.85	9.57	y = 0.0032x + 0.0698	-21.81	4.36
C6	y = 0.004x + 0.38	-95.00	19.00	y = 0.0055x + 0.1107	-20.13	4.03
C7	y = 0.0065x + 0.1562	-24.03	4.81	y = 0.0072x + 0.0476	-6.61	1.32
C8	y = 0.005x + 0.2138	-42.76	8.55	y = 0.0078x + 0.0526	-6.74	1.35
C9	y = 0.0049x + 0.2382	-48.61	9.72	y = 0.0047x + 0.0295	-6.28	1.26
C10	y = 0.004x + 0.2704	-67.60	13.52	y = 0.0059x + 0.1128	-19.12	3.82
C11	y = 0.0042x + 0.4418	-105.19	21.04	y = 0.0014x + 0.0463	-33.07	6.61

Supplementary Table S2: Quantification of endogenous NO₂-OA and NO₂-LA in healthy controls' plasma by standard addition method

Sample	NO ₂ -OA			NO ₂ -LA		
	Regression equation	x-intercept	Endogenous conc. (nM)	Regression equation	x-intercept	Endogenous conc. (nM)
C12	y = 0.0054x + 0.2681	-49.65	9.93	y = 0.0054x + 0.0641	-11.87	2.37
C13	y = 0.0058x + 0.1941	-33.47	6.69	y = 0.0059x + 0.0822	-13.93	2.79
C14	y = 0.0029x + 0.3714	-128.07	25.61	y = 0.0056x + 0.0621	-11.09	2.22
C15	y = 0.0051x + 0.2411	-47.27	9.45	y = 0.0024x + 0.0565	-23.54	4.71
C16	y = 0.0035x + 0.2437	-69.63	13.93	y = 0.0032x + 0.1089	-34.03	6.81
C17	y = 0.0039x + 0.1755	-45.00	9.00	y = 0.0032x + 0.0262	-8.19	1.64
C18	y = 0.0046x + 0.3874	-84.22	16.84	y = 0.0053x + 0.0433	-8.17	1.63

Supplementary Table S3: Results of the linearity study of NO₂-OA and NO₂-LA in plasma

NO ₂ -OA (nM)	Peak area ratios			Average	Std dev	Std error	%RSD
	Cal 1	Cal 2	Cal 3				
0	0.151	0.169	0.132	0.151	0.0185	0.0107	12.280
15	0.236	0.245	0.230	0.236	0.237	0.008	0.004
30	0.288	0.227	0.283	0.266	0.034	0.020	12.732
45	0.374	0.252	0.394	0.340	0.077	0.044	22.607
60	0.460	0.365	0.447	0.424	0.052	0.030	12.148
Slope 0.0043				Intercept 0.1536	R² 0.9805		

NO ₂ -LA (nM)	Peak area ratios			Average	Std dev	Std error	%RSD
	Cal 1	Cal 2	Cal 3				
0	0.029	0.029	0.030	0.029	0.0005	0.0003	1.830
15	0.087	0.069	0.067	0.074	0.011	0.006	14.872
30	0.116	0.130	0.119	0.122	0.008	0.004	6.196
45	0.204	0.213	0.174	0.197	0.021	0.012	10.408
60	0.305	0.345	0.257	0.302	0.044	0.025	14.560
Slope 0.0045				Intercept 0.0112	R² 0.9644		

Supplementary Table S4: % deviations of peak area ratios of NO₂-OA and NO₂-LA from true values for evaluating accuracy

	NO ₂ -OA			NO ₂ -LA		
Spiked conc. (nM)	True value	Measured value *	% dev	True value	Measured value *	% dev
10	0.1966	0.208±0.006	-5.968	0.0562	0.065±0.005	-15.355
35	0.3041	0.300±0.039	1.348	0.1687	0.149±0.013	11.794
50	0.3686	0.364±0.039	1.338	0.2362	0.281±0.010	-18.862

* Average of 3 replicates ± standard deviation

Supplementary Table S5: % RSDs of peak area ratios of NO₂-OA and NO₂-LA for evaluating intra- and inter-day precision

	Intra-day			Inter-day		
NO₂-OA	Mean peak area ratio*	SD	% RSD	Mean peak area ratio*	SD	% RSD
10	0.208	0.006	2.813	0.209	0.0183	8.789
35	0.300	0.039	13.077	0.330	0.0263	7.965
50	0.364	0.039	10.725	0.378	0.0302	7.975
NO₂-LA						
10	0.065	0.005	7.582	0.068	0.0082	12.015
35	0.149	0.013	8.834	0.172	0.0220	12.809
50	0.281	0.010	3.412	0.249	0.0365	14.657

* Average of 3 replicates