

Figure 1. Aortic ring segment functional responses following 1hr exposure with 200 μ M
 (A) Response to KCl-induced maximal vasoconstriction.
 (B) Concentration-response curve to phenylephrine (PE)-induced vasoconstriction
 (C) Concentration-response curve to acetylcholine (ACh)-induced vasorelaxation
 (D) Concentration-response curve to sodium nitroprusside (SNP)-induced vasorelaxation
 (E) Response of PE pre-constricted ring to maximal ACh concentration

(A) Maximum response (mN/mm²)

60mM KCl, 10 min

	EtOH	OA-EtOH
N	7	7
Mean	1.90	1.87
Std. Error of Mean	0.20	0.13

(B) Phenylephrine dose-response:

log[PE] (M)	EtOH	
	Mean	SEM
0.00000001	0.016	0.043
0.0000001	0.222	0.299
0.0000003	0.841	0.598
0.000001	1.875	0.703
0.000003	2.544	0.793
0.00001	3.053	0.972
0.0001	3.505	0.923

(C) Acetylcholine dose-response:

log[ACh] (M)	EtOH	
	Mean	SEM

0.00000001	2.3682	2.0632
0.0000001	3.4301	2.8922
0.0000003	16.5621	8.8408
0.000001	37.8357	7.9915
0.000003	59.4961	7.1526
0.00001	75.3414	7.0485
0.0001	81.1214	7.0031

(D) Sodium nitroprusside dose-response:

log[SNP] (M)	EtOH	
	Mean	SEM
0.00000001	1.3183	0.4468
0.0000001	19.9980	4.5507
0.0000003	38.1451	4.6573
0.000001	56.8396	5.8230
0.000003	77.0805	3.4987
0.00001	88.6840	1.3901
0.0001	94.2064	1.1371

(E) Maximum response (mN/mm²)

1uM PE for 10 min, 1uM Ach 3 min

	EtOH	OA-EtOH
Number of values	7	7
Mean	43.00	24.49
Std. Error of Mean	6.76	4.64

10-OA, 12-OH OA, or vehicle control. Data show mean \pm SEM (n=7-8/group) * $=p<0.05$ significantly different.

relaxation.

relaxation as percent of PE pre-constricted tone.

relaxation.

12-OH OA-EtOH

8

1.51

0.15

			OA-EtOH			
N	Mean	SEM	N	Mean	SEM	N
7	-0.030	0.057	7	-0.01	0.057	7
7	0.212	0.109	7	0.22	0.109	7
7	1.238	0.462	7	0.90	0.462	7
7	2.324	0.578	7	1.66	0.578	7
7	2.758	0.674	7	2.11	0.674	7
7	3.068	0.715	7	2.40	0.715	7
7	3.369	0.738	7	2.65	0.738	7

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7	2.758	0.674	7	2.11	0.674	7
7	3.068	0.715	7	2.40	0.715	7
7	3.369	0.738	7	2.65	0.738	7

7	1.515457143	0.65701219	7	1.192625
7	2.387	2.30084623	7	0.540875
7	10.62450429	5.34485638	7	8.90786
7	21.87014286	6.95755318	7	18.463375
7	39.79845	10.0998798	7	32.337225
7	54.29314286	10.3422567	7	45.303875
7	67.25714286	8.01949877	7	55.2015

		OA-EtOH		
N	Mean	SEM	N	Mean
7	1.164	0.451	7	1.577
7	22.834	4.080	7	21.307
7	45.244	5.793	7	40.788
7	67.760	4.389	7	64.124
7	80.104	3.967	7	79.919
7	88.901	3.296	7	86.765
7	95.173	2.207	7	93.895

12-OH OA-EtOH

8

17.25

5.15

rent than vehicle control group.

2-OH OA-EtOH	
SEM	N
0.05	8
0.26	8
0.49	8
0.68	8
0.76	8
0.82	8
0.86	8

2-OH OA-EtOH	
SEM	N

0.77189483	8
1.94987144	8
4.26755233	8
6.59888599	8
8.1731336	8
9.71284707	8
10.1562626	8

2-OH OA-EtOH

SEM	N
0.540	8
4.071	8
4.964	8
4.317	8
3.604	8
5.954	8
4.095	8