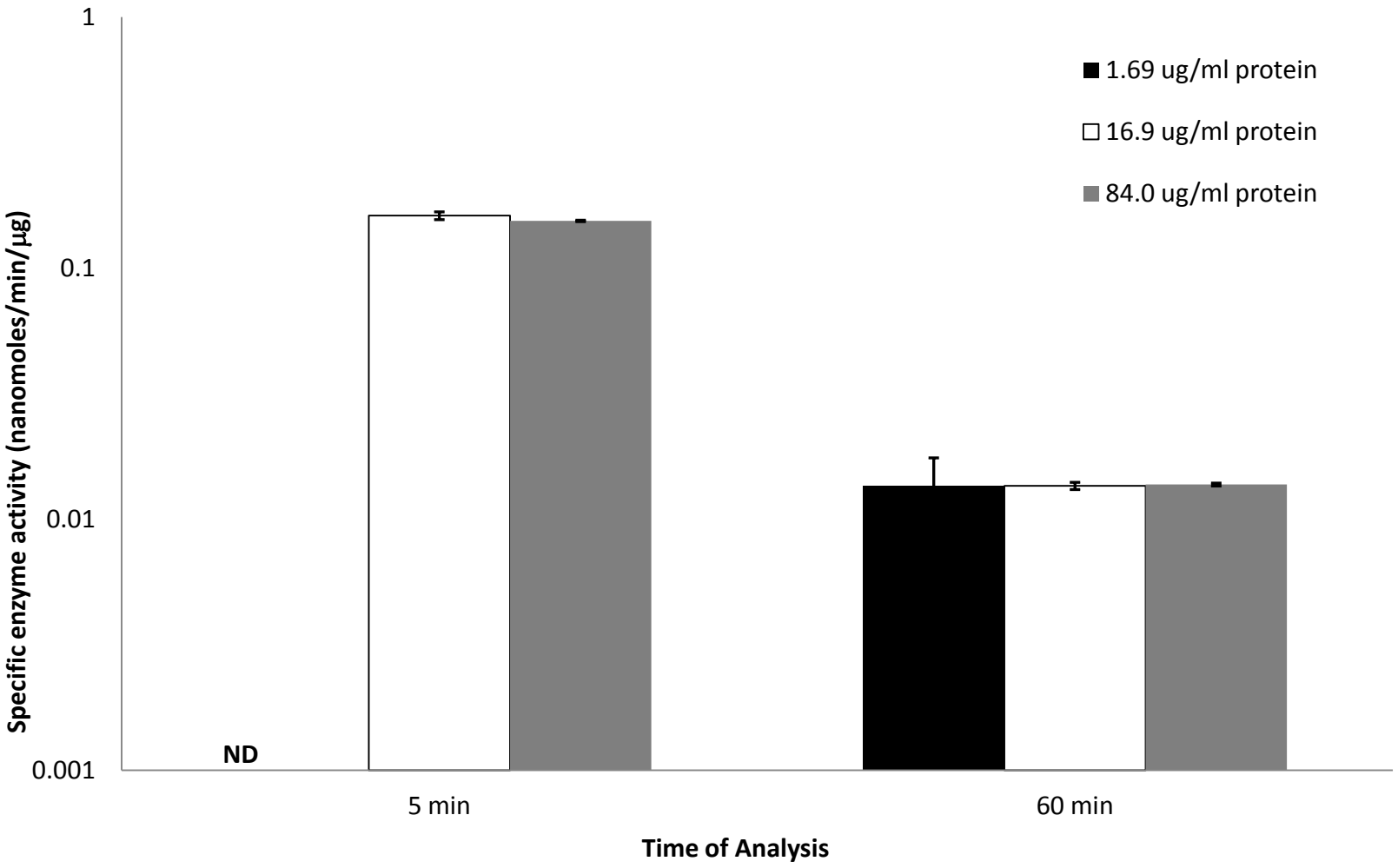
Supplemental Table 1. Primers used for q-RT-PCR analysis. Nucleotide sequences of right and left primers are shown. The sizes of the Amplicon and Roche UPL probes are noted.

Gene	Right Primer	Left Primer	Amplicon	UPL Probe #
glutathione peroxidase 7 *gpx7*	ttccatctggggctactagg	ccatcctgccttcaagtacc	86 nt	12
glutathione synthetase *gss*	tcatcctgtttgatggtgct	cctgctagtggatgctgtca	75 nt	1
glutathione S-transferase mu 2 *gstm2*	ggcagagatcttctccaagc	tgatgtccttgagagaaaccaa	106 nt	27
glutathione S-transferase theta 2 *gstt2*	atcaggatggccgagctt	gcagcacaagagcaaggagt	102 nt	64
superoxide dismutase 2 *sod2*	tgatggcttccagcaactc	ctggacaaacctcagcccta	62 nt	22
thioredoxin reductase 2 *txnrd2*	aggttccacgtagtccacca	agcgggactatgatctcctg	110 nt	33
glyceraldehyde-3-phosphate dehydrogenase *gapdh*	gcccaatacgaccaaatcc	agccacatcgctcagacac	66 nt	60

Supplemental Table 2. Paraoxon does not induce peroxide production in HSG cells. Samples were analyzed in triplicate (n = 3) and results are shown as averages with standard deviation.

	Fluorescence (RFU)	**Standard Deviation**
Control	167.56	58.19
Paraoxon	171.08	60.07



Supplemental Fig. 1. HSG cells express very low amounts of AChE activity. Ellman assays were performed on crude protein lysates of HSG cells. Various amounts of protein were analyzed at two time points. Black bars, 8.45 µg/ml protein; white bars, 84.5 µg/ml protein; gray bars, 420 µg/ml protein. ACh hydrolysis activity is expressed as nanomoles substrate hydrolyzed/min/µg. Samples were analyzed in triplicate and the results shown are the average activity with standard deviation; ND: not detectable.