

**a. GRP78 expression (% of T0)**

Time	Experiment					Mean	SD
	1	2	3	4	5		
<b>0 hr</b>	100.00	100.00	100.00	100.00	100.00	<b>100.00</b>	0.00
<b>0 hr 30 min</b>	78.94	72.30	78.68	138.63	125.74	<b>92.14</b>	31.15
<b>1 hr</b>	105.69	121.36	89.18	133.07	65.69	<b>112.32</b>	19.07
<b>2 hr</b>	94.74	153.69	114.06	98.30	112.02	<b>115.20</b>	27.00
<b>4 hr</b>	127.44	154.74	112.22	132.49	161.19	<b>131.72</b>	17.60
<b>6 hr</b>	117.75	152.24	73.64	88.47	160.72	<b>108.02</b>	34.71
<b>8 hr</b>	154.92	126.35	134.81	209.33	570.30	<b>156.36</b>	37.30
<b>16 hr</b>	260.39	202.71	197.33	514.03	1328.58	<b>293.61</b>	149.69

**b. eIF2 $\alpha$  phosphorylation (ratio P-eIF2 $\alpha$ /total eIF2 $\alpha$ )**

Time	Experiment					Mean	SD
	1	2	3	4	5		
<b>0 hr</b>	1.21	3.29	2.87	1.34	1.06	<b>2.18</b>	1.06
<b>0 hr 30 min</b>	1.77	1.57	2.34	0.85	1.36	<b>1.63</b>	0.61
<b>1 hr</b>	2.14	2.79	2.19	1.24	3.10	<b>2.09</b>	0.64
<b>2 hr</b>	3.88	5.27	7.12	1.50	4.99	<b>4.44</b>	2.37
<b>4 hr</b>	3.03	6.07	5.40	0.87	7.39	<b>3.84</b>	2.37
<b>6 hr</b>	4.29	2.91	3.38	1.52	5.31	<b>3.03</b>	1.16
<b>8 hr</b>	5.76	5.89	4.55	1.55	5.01	<b>4.44</b>	2.02
<b>16 hr</b>	5.68	4.61	6.05	1.64	10.34	<b>4.50</b>	2.00

**c. eIF2 $\alpha$  phosphorylation (4 hr)**

Experiment	Condition	eIF2 $\alpha$ (AU)	p-eIF2 $\alpha$ (AU)	Ratio	Tm/unt
<b>1</b>	unt	654311.7	11974.4	0.018	<b>26.87</b>
	tm	48095.8	23647.4	0.49	
<b>2</b>	unt	511417.8	12569.6	0.025	<b>1.76</b>
	tm	459455.1	19903.5	0.043	
<b>3</b>	unt	441216.7	18189.3	0.041	<b>1.15</b>
	tm	519647.2	24571.2	0.047	
<b>4</b>	unt	712303.7	49168.3	0.069	<b>0.81</b>
	tm	925904.8	51966.9	0.056	
<b>5</b>	unt	377470.9	19633.8	0.052	<b>2.41</b>
	tm	334187.2	41832.5	0.125	

**d. GRP78 expression (4 hr)**

Experiment	Condition	GRP78 (AU)	GRP78 normalized to Ctrl
<b>1</b>	unt	nd	<b>nd</b>
	tm	21328.4	
<b>2</b>	unt	12912.5	<b>1.02</b>
	tm	13194.6	
<b>3</b>	unt	36890.2	<b>1.34</b>
	tm	49611.0	
<b>4</b>	unt	29254.2	<b>0.64</b>
	tm	18791.7	
<b>5</b>	unt	9921.5	<b>0.69</b>
	tm	6876.5	

**e. Ratios of polysomes/monosomes (4 hr)**

Experiment	Condition	P/ M
<b>1</b>	UNT	2.838
	tm	1.914
<b>2</b>	UNT	2.395
	tm	1.994
<b>3</b>	UNT	2.593
	tm	1.723
<b>4</b>	UNT	2.331
	tm	1.637
<b>5</b>	UNT	2.300
	tm	1.286

**Table S1 : ER-stress marker induction and polysome/monosome ratios.**

Kinetics of ER stress induction were performed (5 independent experiments) and ER stress was measured with GRP78 expression (a) and eIF2 $\alpha$  phosphorylation (b). 5 independent experiments were performed with a 4 hr treatment to be analysed by mass spectrometry. GRP78 expression (c) and eIF2 $\alpha$  phosphorylation (d) and polysome/monosome ratio (e) were measured for each experiment. Mass spectrometry was performed with samples 1, 3, 4 and 5, based on the lower polysome/monosome ratio in the tm condition.