

SUPPLEMENTAL TABLE 1

NOAEL, EC₂₀ and EC₅₀ for Mercurials in Human Cells

	SK-N-SH		HepG2		HEK293	
	HgCl ₂	MeHgCl	HgCl ₂	MeHgCl	HgCl ₂	MeHgCl
NOAEL	14 µM	1.7 µM	25 µM	18 µM	4.8 µM	2.2 µM
EC ₂₀	22 µM	5.1 µM	50 µM	27 µM	7.7 µM	3.9 µM
EC ₅₀	29 µM	9.7 µM	58 µM	33 µM	17 µM	6.8 µM

SUPPLEMENTAL TABLE 2

Primers Sequences used for qRT-PCR

Gene	Forward (5'→3')	Reverse (5'→3')
<i>C. elegans</i> Genes		
<i>mlc-2</i>	TTGACAGGAAGTACCCAGAGG	ATAGCCTTGACCTCATCCTCG
<i>mtl-1</i>	CGCCAAATCTCATCACAAA	CGTGAATGTTGCAAACACCT
<i>mtl-2</i>	CCGAACAATTGAACGGTCAC	CCTGCACAAAGACTTCCTGG
Mammalian Genes		
β-actin	GATATCGCTGCGCTGGTCGTC	ACGCAGCTCATTGTAGAAGGTGTGG
ABCG2	AGCTCGAAGGAAAGATCCAA	TCGCCATCACAAACATCATCT
BACE1	CCAGAGGCAGCTGTCCAGCAC	GTGACGTTGGGGCCATGGGG
BACE2	CAGCTGGCGTGCTGGACGAA	GGGCTGAATGTAAAGCTGAGGCAGG
CHKA	TGAATTTCAAGGGGCTGAGGCCA	CGCCGGCTCGGGATGAACTG
CHKB	CAGCCCGAGGAGCTGAGGGT	AGGGAGTCCACGCCCTGCAA
ELOVL3	TTCGAGGAGTATTGGGCAAC	AAGATTGCAAGGCAGAAGGA
ELOVL6	GTGCTCTTCGAACTGGTGCT	CCCAGAATTTGCTGACAGGT
GCLC	GTGGATGTGGACACCAGATG	GCGATAAACTCCCTCATCCA
PARG	TTTTGCGAGCAGGAGAAGTT	CAGTTCGCTCACCATTCTCA

SUPPLEMENTAL TABLE 3

Sequences of siRNA used in mammalian cell culture

Gene	Target Sequence
ABCG2	CTGGTCTAATTTATTAATCTA
BACE1	CACAGTGGCACTAGCATTATA
BACE2	TACATGTGCCACCAACATAAA
CHKA	AGCCGGCGATTAGATACTGAA
CHKB	CACGAAGATGGCGCAATTTCA
ELOVL3	ACGGTTCATCATCCTGCGTAA
ELOVL6	TAGGTTGATTTAACCCAGTAA
GCLC	TAGGATCAGTAAATCCCGATA
PARG	CTGGATCACAATGAATGTCTA