

SUPPLEMENTARY DATA

Supplementary Table 1. Primer sequences for quantitative real-time PCR

Sequences of SYBR Green primers

Gene	GenBank Accession No.	Primer (5' to 3')
<i>Ddit3</i>	NM 007837	<i>f</i> CCA CCA CAC CTG AAA GCA GAA
(Chop)		<i>r</i> AGG TGA AAG GCA GGG ACT CA
<i>Dnajb9</i>	NM 013760	<i>f</i> CCC CAG TGT CAA ACT GTA CCA G
(ERdj4)		<i>r</i> AGC GTT TCC AAT TTT CCA TAA ATT
<i>Xbp1s</i>	NM 013842	<i>f</i> GGT CTG CTG AGT CCG CAG CAG G
		<i>r</i> AGG CTT GGT GTA TAC ATG G
<i>Rn 18S</i>	NR 003278	<i>f</i> TTC TGG CCA ACG GTC TAG ACA AC
		<i>r</i> CCA GTG GTC TTG GTG TGC TGA

Sequences of TaqMan primers and probes

Gene	GenBank Accession No.	Probe (FAM-5' -> 3'-TAMRA)	Primer (5' to 3')
<i>Tnf</i>	NM 013693	CCC GAC TAC GTG CTC CTC ACC CA	<i>f</i> TCT CTT CAA GGG ACA AGG CTG
(TNF α)			<i>r</i> ATA GCA AAT CGG CTG ACG GT
<i>IL-6</i>	NM 031168	CAC CAG CAT CAG TCC CAA GAA GGC A	<i>f</i> ATG AAG TTC CTC TCT GCA AGA G
			<i>r</i> GTA GGG AAG GCC GTG GTT G
<i>Il1b</i>	NM 008361	CAT GGC ACA TTC TGT TCA AAG AGA GCC TG	<i>f</i> TCG CTC AGG GTC ACA AAG AAA
			<i>r</i> CCA TCA GAG GCA AGG AGG AA

Forward and reverse primers are designated by *f* and *r*, respectively.

Ddit3, DNA-damage inducible transcript 3 (=Chop); **Dnajb9**, DnaJ (Hsp40) homolog, subfamily B, member 9 (=ERdj4); **Xbp1s**, spliced form of X-box binding protein 1; **Rn 18S**, 18S ribosomal RNA; **Tnf**, tumor necrosis factor; **IL-6**, interleukin 6; **Il1b**, interleukin 1 beta.

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Supplementary Figure 1. The expression levels of inflammatory cytokines (TNF- α and IL-1 β) were correlated with those of ER stress-responsive genes in hypothalamus, but mRNA levels of inflammatory cytokines were very low (especially, IL-6 mRNA level was undetectable). (A, B) Brown rice-fed mice, (C, D) Orz-treated mice.

