

Figure S1. Effects of mannitol and HG on protein expression of salusin- β in HK-2 cells. HK-2 cells were incubated with NG (5.5 mM), mannitol (30 mM) or HG (30 mM) for 48 h. (A) Representative blot images and semi-quantitative analysis of salusin- β protein expression. (B) Salusin- β mRNA expression was determined by performing reverse transcription-quantitative PCR. (C) Salusin- β levels were determined by ELISA. (D) Iron and (E) GSH contents. (F) MDA levels. (G) Cell viability was evaluated by performing the Cell Counting Kit-8 assay. Data are presented as the mean \pm SD (n=5 per group). *P<0.05 vs. NG. HG, high glucose; NG, normal glucose; GSH, glutathione; MDA, malondialdehyde.

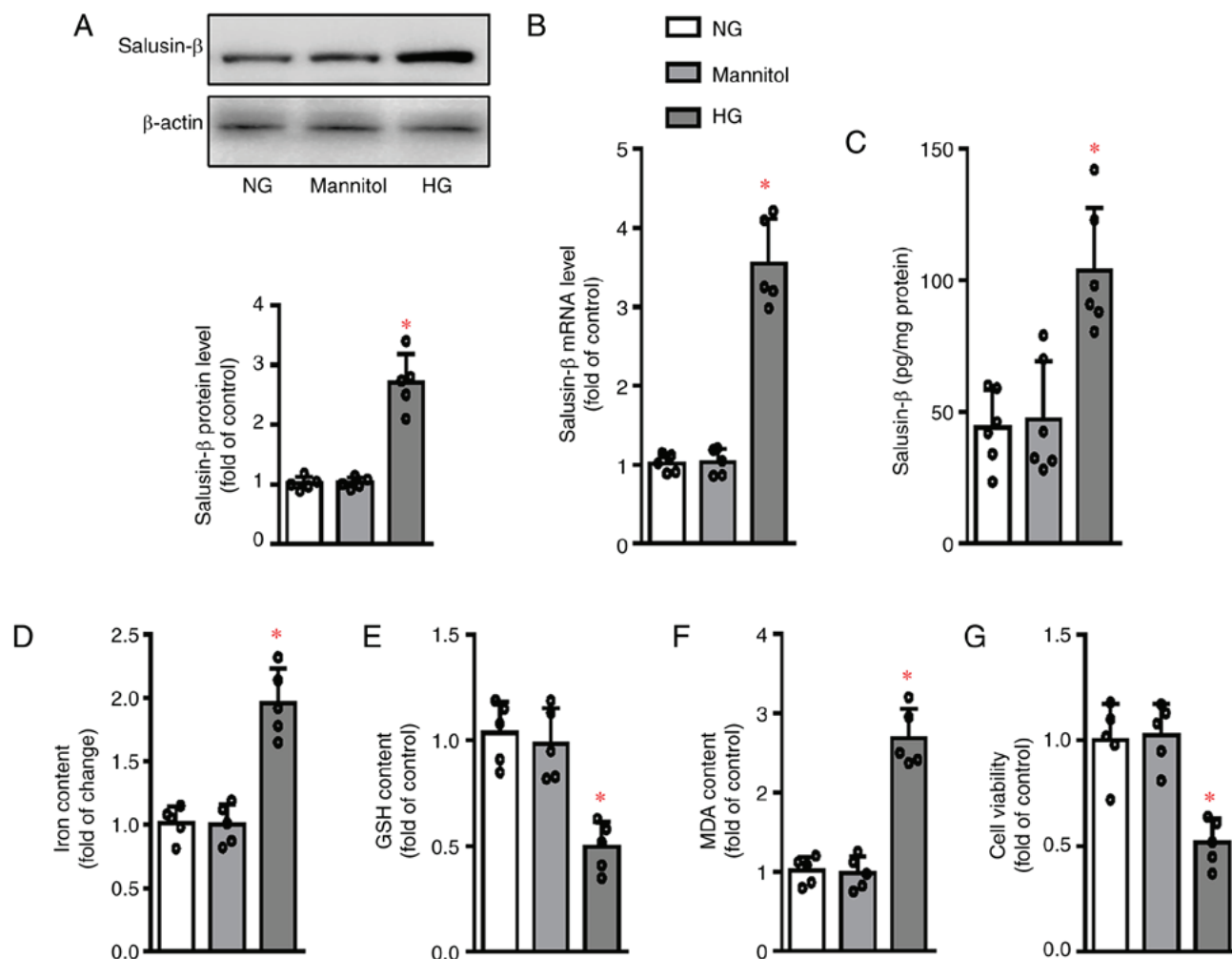


Figure S2. Expression of salusin- β in HK-2 cells. (A) Effects of salusin- β shRNA on salusin- β protein expression. (B) Effects of salusin- β overexpression on salusin- β protein expression. Data are presented as the mean \pm SD (n=5 per group). *P<0.05 vs. Con shRNA or Vector. OE, overexpression; Con, control; sh, short hairpin RNA.

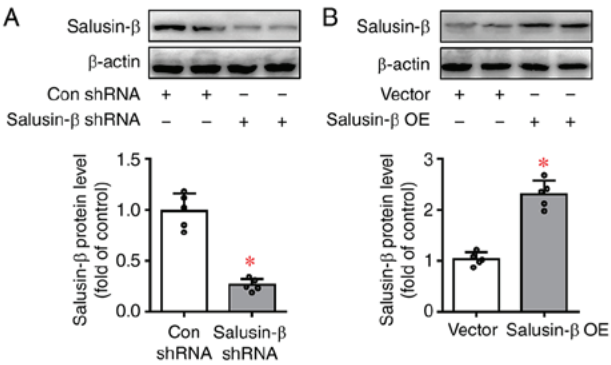


Figure S3. Expression of *Nrf-2* in HK-2 cells. A non-targeting control siRNA (50 nM) and *Nrf-2* siRNA (50 nM) were transfected to HK-2 cells for 48 h. Effects of *Nrf-2* siRNA on *Nrf-2* protein expression were determined. Data are presented as the mean \pm SD (n=5 per group). *P<0.05 vs. Con siRNA. *Nrf-2*, nuclear factor erythroid-derived 2-like 2; Con, control; si, small interfering RNA.

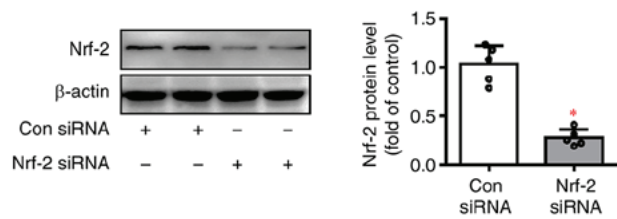


Table SI. Sequences of primers used for reverse transcription-quantitative PCR in HK-2 cells.

Gene	Sequence (5'→3')
<i>GAPDH</i>	F: CCACATCGCTCAGACACCAT R: CCAGGCGCCCAATACG
<i>Salusin-β</i>	F: GGGTGGTATACGGGACCAAT R: ACAGCCTGGACAACCTCATC
<i>GPX-4</i>	F: GGCTTCGTGTGCATCGTCACC R: TTCACCACGCAGCCGTTCTTG
<i>SLC7A11</i>	F: CGCAAGCACACTCCTCTACCAG R: TCAGAGTGATGACGAAGCCAATCC
<i>TFR-1</i>	F: TGTGGCGTATAGTAAGGCTGCAAC R: GGCAATCCTGATGACCGAGATGG
<i>FTH-1</i>	F: AGAACTACCACCAGGACTCAGAGG R: GGAAGATTCGGCCACCTCGTTG

GPX-4, glutathione peroxidase 4; *SLC7A11*, solute carrier family 7 (cationic amino acid transporter, y+ system) member 11; *TFR-1*, transferrin receptor 1; *FTH-1*, ferritin heavy polypeptide 1; F, forward; R, reverse.