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XBP1 activation enhances MANF expression via binding to endoplasmic reticulum stress response elements within MANF promoter region in hepatitis B

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Abbreviations: MANF, mesencephalic astrocyte-derived neurotrophic factor; XBP1, X-box binding protein-1; TM, Tunicamycin; ERSE, ER stress-responsive elements; UPR, unfolded protein response; IRE1 α , inositol-requiring 1 α ; LPS, lipopolysaccharide.

Graphical abstract

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