

# Recombinant Human X-Box Binding Protein 1, His-tagged

**Cat. No.** XBP1-1570H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human X-box binding protein 1 was expressed in <i>E. Coli</i> using an N-terminal His tag. MW=25 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	X box binding protein 1 (XBP-1) is a key protein in the mammalian unfolded protein response (UPR) that protects the cell against the stress of malfolded proteins in the endoplasmic reticulum (ER). Upon sensing unfolded proteins, an ER transmembrane endonuclease and kinase termed IRE1p is activated and excises an intron from XBP-1 mRNA. The spliced XBP-1 mRNA results in a 371 amino acid protein (XBP-1s) which is then translocated to the nucleus where it binds to the regulatory elements of downstream genes. Together with other UPR transcription factors such as ATF6, XBP-1 stimulates the production of ER stress proteins including the ER resident protein chaperones glucose regulated protein (GRP) 78 and GRP94.
<b>Sequence</b>	2 – 160.
<b>Purity</b>	~95%.
<b>Application</b>	This recombinant protein can be used for WB, ELISA, MS and neutralization assays.
<b>Tested Application</b>	E, WB, MS.

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<b>Buffer</b>	1X PBS containing 0.1% SDS.
<b>Storage</b>	Store at -70°C. As with any protein, exposing XBP1 recombinant protein to repeated freeze/thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.
<b>SDS-PAGE</b>	Analysis of recombinant XBP1 on Coomassie Blue-stained 4- 15% gradient gel.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	XBP1 X-box binding protein 1 [ Homo sapiens ]
<b>Synonyms</b>	XBP1; X-box binding protein 1; XBP2; TREB5; X-box-binding protein 1; Tax-responsive element-binding protein 5; XBP-1
<b>Gene ID</b>	7494
<b>mRNA Refseq</b>	NM_001079539
<b>Protein Refseq</b>	NP_001073007
<b>UniProt ID</b>	P17861
<b>Chromosome Location</b>	22q12.1
<b>MIM</b>	194355
<b>Pathway</b>	Diabetes pathways
<b>Function</b>	protein dimerization activity; sequence-specific DNA binding; transcription factor activity

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