

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

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

SPECIFICATION

Product Overview	Recombinant Human X-box binding protein 1 was expressed in <i>E. Coli</i> using an N-terminal His tag. MW=25 kDa.
Species	Human
Source	E.coli
Description	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 malformed 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.
Sequence	2 – 160.
Purity	~95%.
Application	This recombinant protein can be used for WB, ELISA, MS and neutralization assays.
Tested Application	E, WB, MS.

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Buffer	1X PBS containing 0.1% SDS.
Storage	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.
SDS-PAGE	Analysis of recombinant XBP1 on Coomassie Blue-stained 4- 15% gradient gel.
GENE INFORMATION	
Gene Name	XBP1 X-box binding protein 1 [Homo sapiens]
Synonyms	XBP1; X-box binding protein 1; XBP2; TREB5; X-box-binding protein 1; Tax-responsive element-binding protein 5; XBP-1
Gene ID	7494
mRNA Refseq	NM_001079539
Protein Refseq	NP_001073007
UniProt ID	P17861
Chromosome Location	22q12.1
MIM	194355
Pathway	Diabetes pathways
Function	protein dimerization activity; sequence-specific DNA binding; transcription factor activity

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