

Recombinant Human X-Box Binding Protein 1, T7-tagged

Cat. No. XBP1-2906H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human X-box binding protein 1 was expressed in E.Coli using anT7 tag at N-terminus. The molecular weight is 28695 Da.
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.
Sequences of amino acids	1-261 aa
Formulation	10 mM Tris. pH 8.0. 0.1% Triton X-100. 0.002% NaN3.
Purity	95%

GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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
MIM	194355
UniProt ID	P17861
Chromosome Location	22q12.1
Pathway	Diabetes pathways; Protein processing in endoplasmic reticulum
Function	DNA binding;protein dimerization activity; sequence-specific DNA binding; transcription factor activity; sequence-specific DNA binding transcription factor activity

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