Recombinant Human XBP1 Protein, GST-HIS-tagged

Cat. No. XBP1-092H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human XBP1, transcript variant 1, fused with N-terminall GST and C-terminall His was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a transcription factor that regulates MHC class II genes by binding to a promoter element referred to as an X box. This gene product is a bZIP protein, which was also identified as a cellular transcription factor that binds to an enhancer in the promoter of the T cell leukemia virus type 1 promoter. It may increase expression of viral proteins by acting as the DNA binding partner of a viral transactivator. It has been found that upon accumulation of unfolded proteins in the endoplasmic reticulum (ER), the mRNA of this gene is processed to an active form by an unconventional splicing mechanism that is mediated by the endonuclease inositol-requiring enzyme 1 (IRE1). The resulting loss of 26 nt from the spliced mRNA causes a frame-shift and an isoform XBP1(S), which is the functionally active transcription factor. The isoform encoded by the unspliced mRNA, XBP1(U), is constitutively expressed, and thought to function as a negative feedback regulator of XBP1(S), which shuts off transcription of target genes during the recovery phase of ER stress. A pseudogene of XBP1 has been identified and localized to chromosome 5.
Form	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1% Sarkosyl.

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Molecular Mass	54.5 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	XBP1 X-box binding protein 1 [Homo sapiens]
Official Symbol	XBP1
Synonyms	XBP1; X-box binding protein 1; XBP2; X-box-binding protein 1; tax-responsive element-binding protein 5; TREB5; XBP-1;
Gene ID	7494
mRNA Refseq	NM_001079539
Protein Refseq	NP_001073007
MIM	194355
UniProt ID	P17861

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