

# Product datasheet for TP762488

# XBP1 (NM\_005080) Human Recombinant Protein

### **Product data:**

#### **Product Type: Recombinant Proteins Description:** Purified recombinant protein of Human X-box binding protein 1 (XBP1), transcript variant 1, 1Met-160Gly, with N-terminal His tag, expressed in E.coli, 50ug Species: Human **Expression Host:** E. coli **Expression cDNA Clone** A DNA sequence encoding the region (1Met-160Gly) of XBP1 or AA Sequence: N-His Tag: Predicted MW: 19.5kDa **Concentration:** >0.05 µg/µL as determined by microplate BCA method **Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining **Buffer:** 50 mM Tris-HCl, pH 8.0, 8 M urea Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. Storage: Store at -80°C after receiving vials. Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. **RefSeq:** NP 005071 7494 Locus ID: **UniProt ID:** P17861, A0A024R1F0 **RefSeq Size:** 1820 Cytogenetics: 22q12 **RefSeq ORF:** 783 Synonyms: TREB-5; TREB5; XBP-1; XBP2



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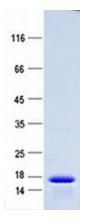
### SEP1 (NM\_005080) Human Recombinant Protein – TP762488

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Tra

**Transcription Factors** 

## **Product images:**



Purified recombinant protein XBP1 was analyzed by SDS-PAGE gel and Coomossie Blue Staining.

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