



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

## Datasheet

### XBP1 (Human) Recombinant Protein (P01)

**Catalog Number:** H00007494-P01

**Regulation Status:** For research use only (RUO)

**Product Description:** Human XBP1 full-length ORF ( NP\_005071.2, 1 a.a. - 261 a.a.) recombinant protein with GST-tag at N-terminal.

**Sequence:**

MVVVAAAPNPADGTPKVLGSGQPASAAGAPAGQALP  
LMVPAQRGASPEAASGGLPQARKRQLTHLSPEEKAL  
RRKLNKRVAAQTARDRKKARMSELEQQVVDLEENQ  
KLLLENQLLREKTHGLVVENQELRQLGMDALVAEEE  
AEAKGNEVRPVAGSAESAALRLRAPLQQVQAQLSPLQ  
NISPWILAVLTLQIQLISCFWTTWTQSCSSNALPQ  
SLPAWRSSQRSTQKDPVPYQPPFLCQWGRHQPSWK  
PLMN

**Host:** Wheat Germ (in vitro)

**Theoretical MW (kDa):** 55.1

**Interspecies Antigen Sequence:** Rat (82)

**Applications:** AP, Array, ELISA, WB-Re

(See our web site product page for detailed applications information)

**Protocols:** See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Preparation Method:** [in vitro wheat germ expression system](#)

**Purification:** Glutathione Sepharose 4 Fast Flow

**Storage Buffer:** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**Storage Instruction:** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 7494

**Gene Symbol:** XBP1

**Gene Alias:** TREB5, XBP2

**Gene 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]