

## Recombinant Mouse Xbp1 Protein, His&GST-tagged

**Cat. No.** Xbp1-592M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Xbp1 Protein (Met1-Leu267) with N-His&GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | Met1-Leu267                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>Enables several functions, including DNA-binding transcription factor activity, RNA polymerase II-specific; enzyme binding activity; and phosphatidylinositol 3-kinase regulatory subunit binding activity. Involved in several processes, including cellular response to hexose stimulus; lipid homeostasis; and positive regulation of macromolecule metabolic process. Acts upstream of or within several processes, including cellular response to leukemia inhibitory factor; exocrine system development; and positive regulation of proteasomal protein catabolic process. Located in cytoplasm and nucleus. Is expressed in several structures, including alimentary system; brain; genitourinary system; sensory organ; and skeleton. Used to study inflammatory bowel disease. Orthologous to human XBP1 (X-box binding protein 1).</p> |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 59.6 kDa<br>Accurate Molecular Mass: 60 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

|                       |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80%                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>   | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                   |
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                     |
| <b>Reconstitution</b> | Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Xbp1 X-box binding protein 1 [ Mus musculus (house mouse) ]                                                                               |
| <b>Official Symbol</b> | Xbp1                                                                                                                                      |
| <b>Synonyms</b>        | XBP1; X-box binding protein 1; X-box-binding protein 1; tax-responsive element-binding protein 5 homolog; TREB5; XBP-1; TREB-5; D11Ert39e |
| <b>Gene ID</b>         | 22433                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_013842                                                                                                                                 |
| <b>Protein Refseq</b>  | NP_038870                                                                                                                                 |

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UniProt ID

O35426

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