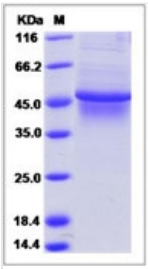
# Tapasin (TAPBP) Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Tapasin (TAPBP), Recombinant Protein |
| **Full Product Name** | Tapasin Protein, Human, Recombinant (His Tag) |
| **Product Gene Name** | TAPBP recombinant protein |
| **Product Synonym Names** | Human TAPBP/ Tapasin Protein (His Tag); NGS17 Protein, Human; TAPA Protein, Human; TPN Protein, Human; TPSN Protein, Human; TAP binding protein (tapasin) |
| **Sequence** | Met1-Val41 4 |
| **Host** | HEK293 Cells |
| **Form/Format** | Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA. |
| **Purity/Purification** | >90% as determined by SDS-PAGE |
| **Preparation and Storage** | Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.<br>In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid.<br>They are shipped out with blue ice. |
| **Molecular Weight** | 38,365 Da |
| **Species** | Human |
| **Endotoxin** | <1.0EU per ug protein as determined by the LAL method. |
| **Predicted N Terminal** | Gly 21 |
| **Tag** | C-His |
| **Protein Construction** | A DNA sequence encoding the human TAPBP (AAH80574.1)(Met1-Val414) was expressed with a polyhistidine tag at the C-terminus. |
| **Reconstitution** | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information. |
| **Related Product Information for TAPBP recombinant protein** | MBS8121888 is a recombinant protein targeting TAPBP. Also known as Tapasin Protein, Human, Recombinant (His Tag). Host: HEK293 Cells. |
| **Other Notes** | Small volumes of TAPBP recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |




**SDS-Page of TAPBP recombinant protein**

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TAPBP. It may not necessarily be applicable to this product.

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|---|---|
| **NCBI GI #** | 51593768 |
| **NCBI GeneID** | 6892 |
| **NCBI Accession #** | AAH80574.1 |
| **UniProt Secondary Accession #** | O15210; O15272; Q5STJ8; Q5STK6; Q5STQ5; A2AB91; A2ABC0; B0V003; B0V0A6; B2ZUA4; E9PGM2 |
| **UniProt Related Accession #** | O15533 |
| **NCBI Official Full Name** | TAPBP protein |
| **NCBI Official Synonym Full Names** | TAP binding protein |
| **NCBI Official Symbol** | TAPBP |
| **NCBI Official Synonym Symbols** | TPN; TAPA; TPSN; NGS17 |
| **Protein Family** | Tapasin |
| **NCBI Protein Information** | tapasin |
| **NCBI Summary for TAPBP** | This gene encodes a transmembrane glycoprotein which mediates interaction between newly assembled major histocompatibility complex (MHC) class I molecules and the transporter associated with antigen processing (TAP), which is required for the transport of antigenic peptides across the endoplasmic reticulum membrane. This interaction is essential for optimal peptide loading on the MHC class I molecule. Up to four complexes of MHC class I and this protein may be bound to a single TAP molecule. This protein contains a C-terminal double-lysine motif (KKKAE) known to maintain membrane proteins in the endoplasmic reticulum. This gene lies within the major histocompatibility complex on chromosome 6. Alternative splicing results in three transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008] |
| **Research Articles on TAPBP** | **1.** The disruption of TAP1 and TAPBP generates pluripotent embryonic stem cells with reduced immunogenicity. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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