Tumor Susceptibility Gene 101 Protein (TSG101) Rat Recombinant Protein

PRODUCT OVERVIEW

Product Name	Tumor susceptibility gene 101 protein (Tsg101), Recombinant Protein
Full Product Name	Recombinant Rat Tumor susceptibility gene 101 protein (Tsg101)
Product Gene Name	Tsg101 recombinant protein
Product Synonym Gene Name	Tsg101
Sequence	AVSESQLKKM MSKYKYRDLT VRQTVNVIAM YKDLKPVLDS YVFNDGSSRE LVNLTGTIPV RYRGNIYNIP ICLWLLDTYP YNPPICFVKP TSSMTIKTGK HVDANGKIYL PYLHDWKHPR SELLELIQIM IVIFGEEPPV FSRPTVSASY PPYTAAGPPN TSYLPSMPSG ISAYPSGYPP NPSGYPGCPY PPAGPYPATT SSQYPSQPPV TTAGPSRDGT ISEDTIRASL ISAVSDKLRW RMKEEMDGAQ AELNALKRTE EDLKKGHQKL EEMVTRLDQE VAEVDKNIEL LKKKDEELSS ALEKMENQSE NNDIDEVIIP TAPLYKQILN LYAEENAIED TIFYLGEALR RGVIDLDVFL KHVRLLSRKQ FQLRALMQKA RKTAGLSDLY
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	44,078 Da
Sequence Positions	2-391, full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6IRE4
Species	Rat
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tsg101 recombinant protein	This protein belongs to a group of apparently inactive homologs of ubiquitin-conjugating enzymes. The gene product contains a coiled-coil domain that interacts with stathmin, a cytosolic phosphoprotein implicated in tumorigenesis. The protein may play a role in cell growth and differentiation and act as a negative growth regulator. In vitro steady-state expression of this tumor susceptibility gene appears to be important for maintenance of genomic stability and cell cycle regulation. Mutations and alternative splicing in this gene occur in high frequency in breast cancer and suggest that defects occur during breast cancer tumorigenesis and or progression.
Other Notes	Small volumes of Tsg101 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.
Searchable Terms for Tsg101 purchase	MBS1430455 is a recombinant protein targeting Tsg101. Also known as Recombinant Rat Tumor susceptibility gene 101 protein (Tsg101). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tsg101. It may not necessarily be applicable to this product.

NCBI GI #	48374087
NCBI GeneID	292925
NCBI Accession #	NP_853659.2
UniProt Primary Accession #	Q6IRE4
UniProt Secondary Accession #	Q7TSE5
UniProt Related Accession #	Q6IRE4
GenBank Nucleotide #	NM_181628.2
NCBI Official Full Name	tumor susceptibility gene 101 protein
NCBI Official Synonym Full Names	tumor susceptibility 101
NCBI Official Symbol	Tsg101
NCBI Official Synonym Symbols	Rw
UniProt Protein Name	Tumor susceptibility gene 101 protein
UniProt Synonym Protein Names	ESCRT-I complex subunit TSG101
Protein Family	ESCRT-I complex
UniProt Gene Name	Tsg101
NCBI Protein Information	tumor susceptibility gene 101 protein
NCBI Summary for Tsg101	forms a transactivation complex with apoptosis-antagonizing transcription factor (AATF); regulates monoubiquitination of the androgen receptor [RGD, Feb 2006]
UniProt Comments for Tsg101	Component of the ESCRT-I complex, a regulator of vesicular trafficking process. Binds to ubiquitinated cargo proteins and is required for the sorting of endocytic ubiquitinated cargos into multivesicular bodies (MVBs). Mediates the association between the ESCRT-0 and ESCRT-I complex. Required for completion of cytokinesis; the function requires CEP55. May be involved in cell growth and differentiation. Acts as a negative growth regulator. Required for the exosomal release of SDCBP, CD63 and syndecan (). It may also play a role in the extracellular release of microvesicles that differ from the exosomes ().
Research Articles on Tsg101	**1.** Hrs and Tsg101 as crucial regulators of trafficking of Cx43 to lysosomes.
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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