

## TSG101 Human

**Description:**TSG101 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 181 amino acids(1-145 a.a.) and having a molecular mass of 20.7 kDa. TSG101 protein is fused to a 36 amino acid His-Tag at N-terminus and purified by standard chromatography.

Catalog #:PRPS-812

For research use only.

**Synonyms:**TSG10, VPS23, TSG101, ESCRT-I complex subunit TSG101, Tumor susceptibility gene 101 protein.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMASV  
ESQLKKMYSK YKYRDLTVRE TVNVITLYKD LKPVLDYVF NDGSSRELMN LTGTIPVPYR  
GNTYNIPICL WLLDTYPYNP PICFVKPTSS MTIKTGKHVD ANGKIYLPYL HEWKHPQSDL  
LGLIQVMIVV FGDEPPVFSR P.

**Purity:**Greater than 90% as determined by SDS-PAGE.

**Formulation:**

TSG101 protein solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

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**Introduction:**

TSG101 is a member of apparently inactive homologs of ubiquitin-conjugating enzymes. TSG101 contains a coiled-coil domain that interacts with stathmin, a cytosolic phosphoprotein implicated in tumorigenesis. TSG101 is involved in cell growth and differentiation and acts as a negative growth regulator. TSG101 in vitro steady-state expression is important for maintenance of genomic stability and cell cycle regulation. TSG101 mutations and alternative splicing occur in high rate in breast cancer and implicate that defects occur during breast cancer tumorigenesis and/or progression. TSG101 is a factor of the ESCRT-I complex, a monitor of vesicular trafficking process. TSG101 binds to ubiquitinated cargo proteins and is needed for the sorting of endocytic ubiquitinated cargos into multivesicular bodies. TSG101 is needed for completion of cytokinesis and is involved in cell growth and differentiation.

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