

32-4973: Recombinant Human STAM Binding Protein

Alternative Name : STAM-binding protein, Associated molecule with the SH3 domain of STAM, Endosome-associated ubiquitin isopeptidase, AMSH, EC 3.1.2.15, EC 3.4.19, MICCAP.

Description

Source : Escherichia Coli. STAMBP Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 447 amino acids (1-424) and having a molecular mass of 50kDa. STAMBP is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. STAM Binding Protein (STAMBP) is a zinc metalloprotease which specifically cleaves Lys-63-linked polyubiquitin chains, however it doesn't cleave Lys-48-linked polyubiquitin chains. STAMBP has a role in signal transduction for cell growth and MYC induction mediated by IL-2 and GM-CSF. In addition, STAMBP potentiates BMP signaling by antagonizing the inhibitory action of SMAD6 and SMAD7. STAMBP also has a major role in regulation of cell surface receptor-mediated endocytosis and ubiquitin-dependent sorting of receptors to lysosomes. Endosomal localization of STAMBP is essential for efficient EGFR degradation but not for its internalization. STAMBP is also involved in the negative regulation of PI3K-AKT-mTOR and RAS-MAP signaling pathways.

Product Info

Amount : 20 µg

Purification : "Greater than 85% as determined by SDS-PAGE.."

Content : STAMBP protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

Storage condition : 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.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMSDHGDV SLPPEDRVRA LSQLGSAVEV NEDIPRRYF
RSGVEIIRMA SIYSEEGNIE HAFILYNKYI TLFIEKLPHK RDYKSAVIPE KKDTVKKLKE IAFPKAEELK
AELLKRYTKE YTEYNEEKKK EAEELARNMA IQQELEKEKQ RVAQQKQQQL EQEQFHAFEE MIRNQELEKE
RLKIVQEFQK VDPGLGGPLV PDLEKPSLDV FPTLTVSSIQ PSDCHTTVRP AKPPVVDRLS KPGALSNSSES
IPTIDGLRHV VVPGRLCPQF LQLASANTAR GVETCGILCG KLMRNEFTIT HVLIPKQSAG SDYCNTEENEE
ELFLIQDQQG LITLGWIHHT PTQTAFLLSV DLHHTCSYQM MLPESVAIVC SPKFQETGFF KLTDHGLEEI
SSCRQKGFHP HSKDPPLFCS CSHVTVDRA VTITDLR.

