
Product Data Sheet

Product Name: STAMBP Human
 Cat. No.: GP24711
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	STAM-binding protein; Associated molecule with the SH3domain of STAM; Endosome-associated ubiquitin isopeptidase; AMSH; EC 3.1.2.15; EC 3.4.19; MICCAP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSDHGDV SLPPEDRVRA LSQLGSAVEV NEDIPRRYF RSGVEIIRMASIYSEEGNIE HAFILYNKYI TLFIEKLPKH RDYKSAVIPE KKDTVKKLKE IAFPKAEELK AELLKRYTKEYTEYNEEKKK EAEELARNMA IQQELEKEKQ RVAQQKQQQL EQEQFHAFEE MIRNQELEKE RLKIVQEFQKVDPLGGPLV PDLEKPSLDV FPTLTVSSIQ PSDCHTTVRP AKPPVDRSL KPGALSNSSES IPTIDGLRHVVVPGRLCPQF LQLASANTAR GVETCGILCG KLMRNEFTIT HVLIPKQSAG SDYCNTEEE ELFLIQDQQLITLGIWIHTH PTQTAFLLSSV DLHTHCSYQM MLPESVAIVC SPKFQETGFF KLTDHGLEEI SSCRQKGFHP HSKDPPLFCSCSHVTVDRA VTITDLR.		
Formulation	STAMBP protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

STAM Binding Protein (STAMBP) is a zinc metalloprotease which specifically cleaves Lys-63-linked polyubiquitin chains, however it does not 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

Caution: Product has not been fully validated for medical applications. For research use only.

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negative regulation of PI3K-AKT-mTOR and RAS-MAP signaling pathways.

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.

Background

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.

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