

AMSH Protein, Human

Cat. No.:	HY-P701458
Synonyms:	STAMPB; STAM-binding protein; Associated molecule with the SH3 domain of STAM; Endosome-associated ubiquitin isopeptidase
Species:	Human
Source:	E. coli
Accession:	O95630 (S2-R424)
Gene ID:	10617
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	AMSH is a zinc metalloprotease with a specific affinity for cleaving 'Lys-63'-linked polyubiquitin chains, excluding 'Lys-48'-linked polyubiquitin chains. It plays a crucial role in signal transduction associated with cell growth, particularly in the context of IL-2 and GM-CSF-mediated pathways. Additionally, AMSH acts as a positive regulator of BMP signaling by counteracting the inhibitory effects of SMAD6 and SMAD7. The protein is instrumental in orchestrating cell surface receptor-mediated endocytosis, facilitating ubiquitin-dependent sorting of receptors to lysosomes. While the endosomal localization of AMSH is vital for efficient EGFR degradation, it is dispensable for receptor internalization. Moreover, AMSH is intricately involved in the negative regulation of PI3K-AKT-mTOR and RAS-MAP signaling pathways.
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Caution: Product has not been fully validated for medical applications. For research use only.

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