

AMSHLP Protein, Human (His)

Cat. No.:	HY-P701459
Synonyms:	STAMBP; STAM-binding protein; Associated molecule with the SH3 domain of STAM; Endosome-associated ubiquitin isopeptidase
Species:	Human
Source:	E. coli
Accession:	Q96FJ0 (D2-R436)
Gene ID:	57559
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	AMSHLP, a zinc metalloprotease, exhibits a selective ability to cleave 'Lys-63'-linked polyubiquitin chains, without affecting 'Lys-48'-linked polyubiquitin chains. Notably, AMSHLP serves as a positive regulator of the TORC1 signaling pathway through its role in the 'Lys-63'-linked deubiquitination of SESN2. This deubiquitination activity impedes the interaction between SESN2 and the GATOR2 complex, thereby contributing to the inhibition of SESN2-mediated TORC1 regulation. These functions underscore AMSHLP's specific involvement in fine-tuning cellular signaling pathways, particularly those associated with TORC1, through precise modulation of 'Lys-63'-linked polyubiquitin chains.
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Caution: Product has not been fully validated for medical applications. For research use only.

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