Product Name: AMSH*

Alternate Names: AMSH, STAM-binding protein, JAMM domain–containing protein STAMBP; ESCRT-associated DUB; mouse ortholog Stambp

Product Code: TDE-063

FOR RESEARCH USE ONLY (RUO)

Verified Applications / Usage

Recombinant AMSH* is a ubiquitin-specific deconjugating fusion-enzyme that is highly specific for K63-linked polyubiquitin. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Human

Predicted MW (kDa): 41 kDa

Source: *E. coli* BL21(DE3) A.I.

Purity: 95 %

Tag: Untagged

Formulation: 40 mM HEPES, 100 mM NaCl, 10% Glycerol, 1 mM EDTA, 1 mM TCEP, pH 7.6

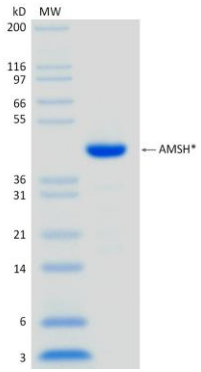
Shipping: The product is shipped with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Stability/Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Aliquot and store ≤ -70°C (stable for 24 months from date of receipt).

Quality Assurance

Purity & SDS-PAGE

Protein ID: STAM-binding protein



2 µg AMSH* run on 4-12% SDS-PAGE gel under reducing conditions, then visualized with Colloidal Coomassie Blue Stain.

Activity Assay

Verified in K63-linked Di-Ubiquitin Hydrolysis Assay.

Background

Description

AMSH* is a recombinant, K63-specific deubiquitylase (DUB) chimera that couples the catalytically competent core of human AMSH to the SH3 domain of murine STAM2. In biochemical assays, the chimera cleaves K63-linked polyubiquitin while remaining essentially inert toward other linkages. Recombinant AMSH* is therefore useful in UbiCrest mapping of unknown chain architectures and other workflows specific to the K63 linkage.

Accession Number: O95630

Entrez Gene ID: STAMBP

Protein Sequence

GPGSTANPFEQDVEKATNEYNTTEDWSLIMDICDRVGSTPSGAKDCLKAIMKRVNHKVPHVAL
QALTLLGACVANCGKIFHLEVCSRDFATEVRSVIKNKAHPKVCEKLKSLMVEWSEEFQKDPQF
SLISATIKSMKEEGVTFPSAGSQTVAAAAKNGTSLNKNKEDEDIAKAIELSLQEQKQQYTETG
GSSGGSNSESIPTIDGLRHVVVPGRLCPQFLQLASANTARGVETCGILCGKLMRNEFTITHVL
IPKQSAGSDYCNTENEEELFLIQDQQGLITLGWIHTHPTQTAFLSSVDLHTHCSYQMMLPESV
AIVCSPKFQETGFFKLTDHGLEEISSCRQKGFHPHSKDPPLFCSCSHVTVVDRAVTITDLR