Product Name: AMSH*

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

Product Code: TDE-063 **Quantity:** 50 µg

FOR RESEARCE USE ONLY (RUO)

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).

Verified Applications / Usage
Recombinant human AMSH* is a Ubiquitin-specific deconjugating fusion-enzyme that is highly specific for K63-linked poly-ubiquitin. Appropriate enzyme concentrations are specific to the application.

Physical Characteristics

Species: Homo sapiens (Human) **Predicted MW (kDa):** 41 kDa

Source: E.coli BL21(DE3) A.I. **Purity:** 95%

Concentration: 60 - 70 µM

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

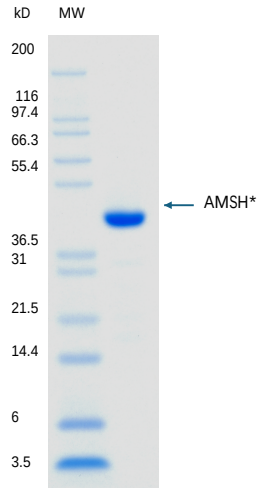
Shipping: The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below.

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 UBA1 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, Lys63-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 rapidly and stoichiometrically cleaves Lys63-linked poly-ubiquitin from model cargo while remaining essentially inert toward other linkages. Recombinant AMSH* is therefore a versatile reagent for linkage-restricted DUB assays and applications.

Accession Number: O95630 **Entrez Gene ID:** STAMBP

Protein Sequence

GPGSTANPFEQDVEKATNEYNTTEDWSLIMDICDRVGSTPSGAKDCLK
AIMKRVNHKVPHVALQALTLLGACVANCGKIFHLEVCSRDFATEVRSVI
KNKAHPKVCEKLKSLMVEWSEEFQKDPQFSLISATIKSMKEEGVTFPSA
GSQTVAAAAKNGTSLNKNKEDEDIAKAIELSLQEQKQQYTETGGSSGG
SNSESIPTIDGLRHVVVPGRLCPQFLQLASANTARGVETCGILCGKLMR
NEFTITHVLIPKQSAGSDYCNTENEEELFLIQDQQGLITLGWIHTHPTQT
AFLSSVDLHTHCSYQMMLPESVAIVCSPKFQETGFFKLTDHGLEEISSC
RQKGFHPHSKDPPLFCSCSHVTVVDRAVTITDLR