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MATERIAL DATA SHEET

Recombinant Human GST AMSH/STAMBP
Cat. # E-549

AMSH (also known as STAM Binding Protein) is a zinc metalloprotease belonging to the JAMM (JAB1/MPN/Mov34) family of deubiquitinating enzymes (DUBs). This enzyme functions at the endosome, where it is involved in the sorting of various cell-surface receptors to lysozomes. AMSH cleaves K63-linked but not K48-linked polyubiquitin chains, and the *in vitro* activity of AMSH is greatly increased in the presence of STAM protein. This recombinant protein is full-length and contains an N-terminal GST tag.

Product Information	
Quantity:	50 µg
MW:	75 kDa
Source:	*Spodoptera frugiperda*, *Sf* 21 (baculovirus)-derived Contains an N-terminal GST (glutathione S-transferase) tag Accession # O95630
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 8.0, 10% Glycerol, 150 mM NaCl, 1 mM TCEP
Purity:	>85%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage	
Use:	Recombinant Human GST-AMSH is a Ubiquitin-specific deconjugating enzyme. Reaction conditions will need to be optimized for each specific application. We recommend an initial Recombinant Human GST-AMSH concentration of 100-500 nM. GST-AMSH activity is partially or fully inhibited by DTT at concentrations above 1 mM.
Storage:	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -70 °C as supplied. • 3 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Agromayor, M. and Martin-Serrano, J. (2006) J. Biol. Chem **281:**23083
2. Kim, M.S., *et al* (2006) Biochem. Biophys. Res Comm. **351**:612
3. McCullough, J., *et al* (2006) Current Biology **16**:160
4. Sato, Y., *et al* (2008) Nature. **455**:358

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