

Ulp1 recombinant protein

Ulp1 (SUMO Protease/Ulp1 peptidase)

CATALOG # AAA332476	HOST E Coli
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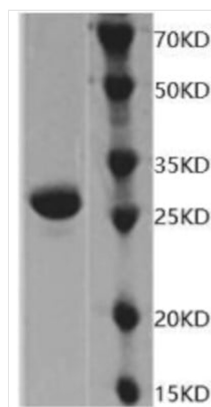
PRODUCT SYNONYMS

Ulp1; Ulp1 (SUMO Protease/Ulp1 peptidase); Ulp1 peptidase; SUMO Protease; Ulp1 recombinant protein

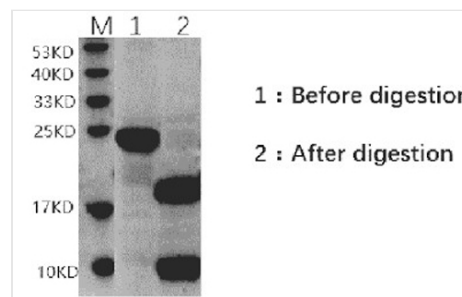
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20 mM Tris, 500 mM NaCl pH8.0.
Sequence Positions	219aa
Protein Construction	Amino acid sequence derived from ULP1 isoform (Q02724) (403-621 aa + N-terminal Poly-6*His tag C-terminal Poly-6*His tag) was expressed.
Protein Length	The recombinant human ULP1 consists of 219 amino acids and has a predicted molecular mass of 28.7 kDa. The apparant molecular mass of ULP1 is approximately 28 kDa in SDS-PAGE under reducing conditions due to glycosylation.
Unit Definition	One unit of SUMO Protease is defined as the amount of enzyme needed to cleave 85% of 2ug of substrate protein at 30°C in one hour.
Enzyme Digestion Conditions	4°C enzyme digestion overnight is recommended, users can explore according to their own research target protein. After digestion, a small amount of samples can be taken for SDS-PAGE analysis. To remove the ULP1 in the digested system, use His tag purification resin affinity chromatography.
Preparation and Storage	Lyophilized ULP1 protein product should be stored desiccated below -80 degree C. Avoid freezing and thawing. Shipping: The product is shipped with blue ice.

IMAGES



SDS-PAGE



1 : Before digestion

2 : After digestion

SDS-PAGE

SDS-PAGE analysis of ULP1.

ADDITIONAL INFORMATION

Related Product Information for Ulp1 recombinant protein	Background: SUMO (Small Ubiquitin-like MODifiers) Protease 1 (Ulp1, Ubl-specific protease 1 from Saccharomyces cerevisiae) is a highly active cysteine protease. It is highly specific as it recognizes the tertiary structure of the ubiquitin-like (UBL) protein, SUMO (Smt3), rather than its amino acid sequence. SUMO fusion tag, as an N-terminal fusion partner, has been shown to enhance functional protein production in prokaryotic and eukaryotic expression systems with significantly improved protein stability and solubility.
Product Categories/Family for Ulp1 recombinant protein	Cell Culture

NCBI AND UNIPROT INFORMATION

NCBI GI #	6325237
NCBI GeneID	856087
NCBI Accession #	NP_015305.1
NCBI GenBank Nucleotide #	NM_001183834.1
UniProt Accession #	Q02724; D6W3Z2
NCBI Official Full Name	SUMO protease ULP1
NCBI Official Symbol	ULP1
NCBI Official Synonym Symbols	NIB1
NCBI Protein Information	SUMO protease ULP1
UniProt Protein Name	Ubiquitin-like-specific protease 1
UniProt Gene Name	ULP1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/ulp1-recombinant-protein-e-coli/332476>