

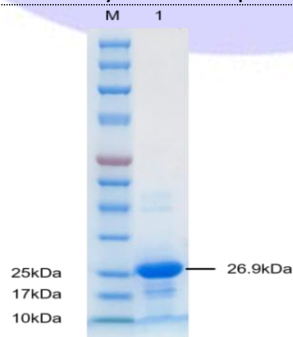


SUMO protease (Ulp1) protein, Recombinant

I. For sale

Product name	Catalog #	Size
SUMO protease (Ulp1) protein, Recombinant	PGEU0001	10ug
		50ug
		500ug
		1mg

II. Product Description

Other Names	NIB1; Ulp1;
Protein & NCBI Number	Q02724, NM_001183834.1
Host	E.coli
Express Region	Lys401-Lys621
Protein Sequence	KKLVPELNEKDDDDQVQKALASRENTQLMNRDNIEITVRDFKTLAPRRWLNDTIEFFMKYIE KSTPNTVAFNSFFYTNLSERGYQGVRWWMKRKKTQIDKLDKIFTPINLNQSHWALGIIDLKK KTIGYVDSLSNGPNAMSFALTDLQKYVMEESKHTIGEDFDLIHLDCPQQPNGYDCGIYVCM NTLYGSADAPLDFDYKDAIRMRRFIAHLITDALK
Molecular Weight	The protein consists of 230 amino acids (including the fusion tag), with a predicted molecular weight of 26.9kDa, which matches the actual molecular weight.
Fusion Tag	6 × His (C-terminus)
Purity	≥85% SDS-PAGE
Physical Property	Liquid
Components	0.01M PBS+20% glycerol, sterile solution.
Storage & Stability	After aliquoting, the stability of the samples can be maintained for up to 6 months at -20°C to -80°C, avoiding repeated freeze-thaw cycles.
Applications	Antibody preparation, immunoassay (ELISA, WB), Cleaves the SUMO tag at the N terminus of the fusion protein, etc.
Lead Time	5 to 10 business days; 2 to 3 days for stock products
Figure. SDS-PAGE	 <p>Bis-Tris (MOPS) SDS-PAGE</p>



III. Storage and Transportation

Transport at 2-8°C, product is stable for up to twelve months from date of receipt under sterile conditions at -20°C to -80°C.

IV. Notes

This product is for research use only. Please wear laboratory attire and disposable gloves when handling.

V. Background

ULP1 also known as Ubiquitin-like-specific protease 1, Smt3-protein conjugate proteinase, Ulp1 endopeptidase, it is mainly sourced *Saccharomyces cerevisiae* (strain ATCC 204508/S288c), it includes three domains: ULP1, Peptidase-C48 and PLN03189.

Catalytic Activity: Hydrolysis of the alpha-linked peptide bond in the sequence Gly-Gly-|-Ala-Thr-Tyr at the C-terminal end of the small ubiquitin-like modifier (SUMO) propeptide, Smt3, leading to the mature form of the protein. A second reaction involves the cleavage of an epsilon-linked peptide bond between the C-terminal glycine of the mature SUMO and the lysine epsilon-amino group of the target protein

VI. References

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5. Ihara M, Koyama H, Uchimura Y, Saitoh H, Kikuchi A (June 2007). "Noncovalent binding of small ubiquitin-related modifier (SUMO) protease to SUMO is necessary for enzymatic activities and cell growth". *The Journal of Biological Chemistry*. 282 (22): 16465 – 75.
6. Mukhopadhyay D, Dasso M (June 2007). "Modification in reverse: the SUMO proteases". *Trends*



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7. A new protease required for cell-cycle progression in yeast. Li S.J., Hochstrasser M. Nature 398:246-251(1999)

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