

Active Recombinant *Saccharomyces cerevisiae* ULP1 Protein

Cat. No. ULP1-02S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	SUMO Protease otherwise known as Ulp1, is a recombinant fragment of ULP1 (Ubl-specific protease 1) from <i>Saccharomyces cerevisiae</i> . This highly specific protease cleaves off sumo tags by recognizing the tertiary structure of SUMO as opposed to recognizing its amino acid sequence. Because of its recognition of SUMO's tertiary structure, it has little to no non-specific proteolysis keeping your protein samples safe after all affinity tags have been cleaved off. SUMO protease is active from 2 centigrade to 37 centigrade in a P.H range of 7.0 – 9.0, for lower temperatures allow more time for the cleavage reaction.
Species	<i>S.cerevisiae</i>
Source	<i>E.coli</i>
Description	Enables SUMO-specific isopeptidase activity. Involved in G2/M transition of mitotic cell cycle and protein desumoylation. Located in nuclear envelope and nucleolus. Orthologous to several human genes including SENP1 (SUMO specific peptidase 1) and SENP2 (SUMO specific peptidase 2).
Bio-activity	≥3,000 units/mg protein
Molecular Mass	27.4 kDa
Purity	> 95% by SDS-PAGE
Usage	recombinant protein SUMO tag removal, recombinant protein characterization,

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ELISA, Western blot, crystallization studies.

Storage Stable for 12 months at -80 centigrade, Avoid freeze/thaw cycles

Storage Buffer 20 mM Tris-HCl, pH8.0, 350 mM NaCl, 10% Glycerol, 1mM 2-Mercaptoethanol

GENE INFORMATION

Gene Name ULP1 SUMO protease ULP1 [*Saccharomyces cerevisiae* S288C]

Official Symbol ULP1

Synonyms ULP1; SUMO protease ULP1; NIB1; SUMO protease ULP1; EC 3.4.22.68; Protease that specifically cleaves Smt3p protein conjugates; required for cell cycle progression; associates with nucleoporins and may interact with septin rings during telophase; contributes to regulation of telomeric silencing; sequestered to the nucleolus under stress conditions

Gene ID 856087

mRNA Refseq NM_001183834

Protein Refseq NP_015305

UniProt ID D6W3Z2

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