

# Enzymax, LLC

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# Product Information

**Product Name:** Ulp1 (SUMO protease)

**Catalog #:** 84

**Size:** 300U, 600U, 1,200U

**Price:** \$150/300U

\$250/600U

\$550/1,200U

**Order:** [info@enzymax.net](mailto:info@enzymax.net)

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**Product:** His-tagged Sumo Protease (Ulp1/Ulp1 protease)

### Product description or back ground:

Enzymax recombinant Yeast Ulp1 is a highly active protease which specifically recognizes the tertiary structure of ubiquitin-like protein, SUMO rather than a short sequence as other commonly used proteases such as Thrombin, TEV, and EK. The protease can be used to cleave the SUMO from recombinant fusion proteins at 30°C or 4°C at pH 7.0-7.9. After digestion, the His-Tagged Ulp1 can be easily removed by His tag affinity chromatography.

**Source:** Recombinant protein

*Saccharomyces cerevisiae* (yeast) Ulp1 expressed in *E. coli*.

**Molecular Mass:** 27 kDa

**Unit definition:** 1U cleaves 85% of 100 ug of sumo-fusion protein at 30°C for 1 hour or 80% at 4°C overnight in a buffer containing 50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 1 mM DTT, and 10% glycerol.

### Presentation:

Purified Ulp1 protein in 50 mM Tris-HCl, (pH7.5), 150 mM NaCl, 1 mM DTT, and 50% glycerol.

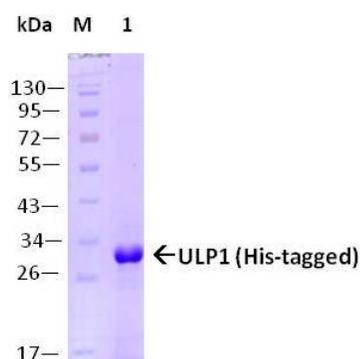
### Storage:

Stable for 2 years at -70°C from date of shipment. Please aliquot to avoid repeated freezing and thawing.

### Suggested dilution buffer (not included):

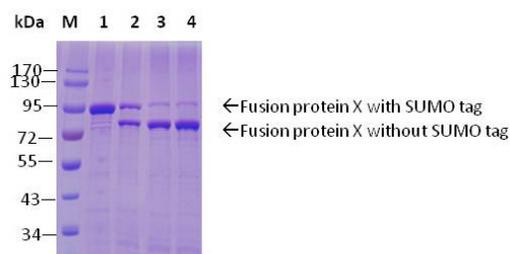
50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 1 mM DTT, and 50% glycerol.

### SDS-PAGE of purified Ulp1:



**Purified yeast Ulp1.** The protein (200 ng) was analyzed by electrophoresis on a 15% SDS-polyacrylamide gel and visualized by staining with Coomassie blue.

### SDS PAGE for Ulp1 cleavage:



### ULP1 Cleavage of SUMO fusion protein X

Lane M: Protein marker

Lane 1: Protein X w/o ULP1

Lane 2: Protein X with ULP1 at 30°C for 15 min.

Lane 3: Protein X with ULP1 at 30°C for 60 min.

Lane 4: Protein X with ULP1 at 4°C for 20 hours.