



Product Information Sheet

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

Product description or back ground:

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:

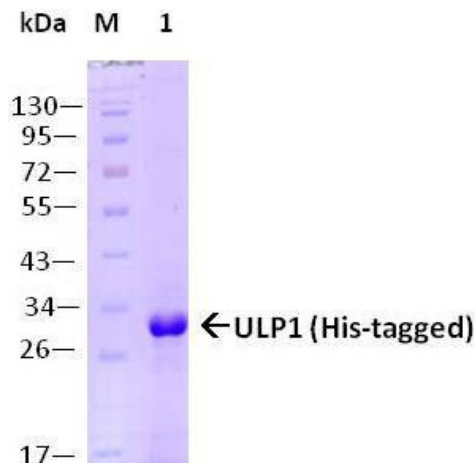
Purified Ulp1 protein in 50 mM Tris-HCl, (pH 7.5), 150 mM NaCl, 1 mM DTT, and 50% glycerol.

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):

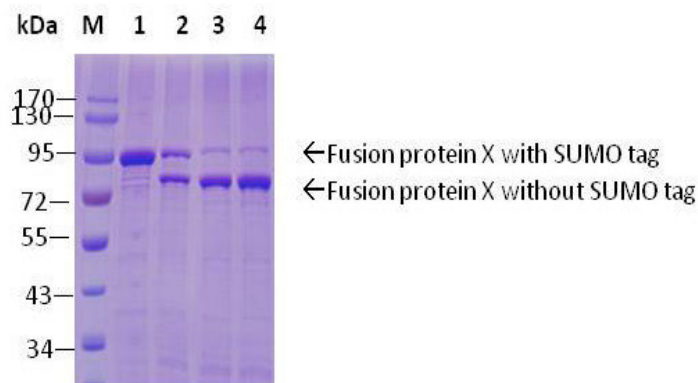
50 mM Tris-HCl (pH 7.5), 100 mM NaCl, 1 mM DTT, and 50% glycerol.

SDS PAGE of purified Ulp1:



Purified yeast Ulp1. The protein (200ng) was analyzed by electrophoresis on a 15% SDS-PAGE gel & Visualized 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.

For Research Use Only not for diagnostic and clinical use

Contact: Antagene, Inc. | Tel: 1 (866) 964-2589 | Fax: 1 (888) 225-1868 | Email: Info@antageneinc.com