

# Recombinant SUMO Protease Ulp1p

## Animal Component-Free

Catalog Number: EXRP130-ACF

For Research Use Only. Not Intended for Diagnostic or Therapeutic Use.



### Product Details

<b>Biological Activity</b>	<b>SUMO protease Ulp1p</b> is highly specific for cleaving SUMO protein fusions. It exhibits both high activity and specificity, making it a preferred choice for cleaving SUMO tags independently of the target protein's structure, leaving no additional amino acids at the N-terminus of the target protein. <b>Specific activity</b> is $> 1 \times 10^5$ Units/mg, 10x higher than usual. One unit of SUMO Protease Ulp1p is the amount of enzyme required to cleave $>90\%$ of <b>20</b> $\mu$ g of SUMO-tag fused protein at 30°C in one hour.
<b>Purity</b>	$>98\%$ by SDS-PAGE and quantitative densitometry by Coomassie® Blue staining
<b>Endotoxin</b>	$<0.5$ EU per 1 $\mu$ g of the protein as determined by the LAL method
<b>Source</b>	Expressed in <i>E. coli</i> using an animal component-free system
<b>Accession Number</b>	Q02724
<b>Sequence</b>	Leu403-Lys621, with an N-terminal His-tag and a TEV cleavage site  Met_His6_TEV_LVPELNEKDDDDQVQKALASRENTQLMNRDNIETVRDFKTLAPRRWLNDTIEFFMKY IEKSTPNTVAFNSFFYTNLSERGYQGVRWRMCRKKTQIDKLDKIFTPINLNQSHWALGIIDLKKTIGYV DSLNGPNAMSFAL TDLQKYVMEESKHTIGEDFDLIHLDCPQQPNGYDCGIYVCMNTLYGSADAPLD FDYKDAIRMRRFIAHLILTALK
<b>Molecular Weight</b>	28 kDa (monomer, predicted)
<b>Formulation</b>	In 25 mM Tris-HCl, pH 7.5, 200 mM NaCl, 1 mM DTT, 50% Glycerol

### Storage and Preparation

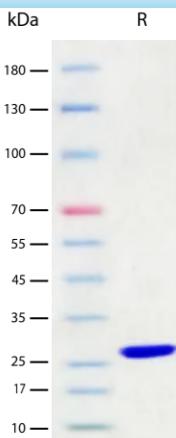
**Shipping** Shipped on Blue Ice. Store immediately at -20°C upon receipt.

**Stability and Storage**

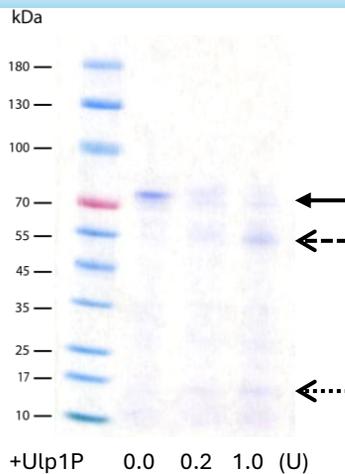
- 12 months from date of receipt at -20°C.

**Avoid repeated freeze-thaw cycles.**

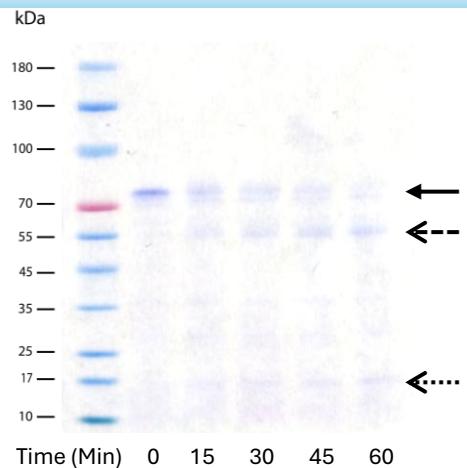
### Data Images



Recombinant SUMO Protease Ulp1p (2  $\mu$ g/lane) on SDS-PAGE under reducing (R) conditions. The gel was stained using Coomassie® Blue showing a band at 28 kDa and purity greater than 98%.



SDS-PAGE analysis of Ulp1p cleavage reaction with 20  $\mu$ g of substrate at 30°C for 60 min with varying enzyme units. Greater than 90% cleavage observed with 1U.



SDS-PAGE analysis of 1U Ulp1p cleavage reaction with 20  $\mu$ g of substrate at 30°C with varying incubation time. Greater than 90% cleavage observed at 60min.