

<b>Product Name</b>	Recombinant SUMO Protease	<p>SDS-PAGE gel</p> <p>kDa</p> <p>170</p> <p>130</p> <p>93</p> <p>70</p> <p>53</p> <p>41</p> <p>30</p> <p>22</p> <p>18</p> <p>14</p> <p>9</p> <p>1 2</p> <p>1 – MW Marker 2 – SUMO</p>
<b>Synonym(s)</b>	ULP1, Ulp, Ubl-specific protease 1	
<b>Quantity</b>	1000 Units, 10,000 Units	
<b>Lot Number</b>	B01007	
<b>Molecular weight</b>	27.4 kDa	
<b>Purity</b>	>90% by SDS-PAGE	
<b>Tag</b>	N-terminal His tag	
<b>Expression Source</b>	E. coli	
<b>GenBank Accession #</b>	QHB12236.1	
<b>Application</b>	recombinant protein SUMO tag removal, recombinant protein characterization, ELISA, Western blot, crystallization studies.	
<b>Formulation</b>	20 mM Tris-HCl, pH8.0, 350 mM NaCl, 10% Glycerol, 1mM 2-Mercaptoethanol	
<b>Storage and Stability</b>	Stable for 12 months at -80°C, Avoid freeze/thaw cycles	
<b>Description</b>	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°C to 37°C in a pH range of 7.0 – 9.0, for lower temperatures allow more time for the cleavage reaction.	
<b>Unit Definition</b>	One unit of SUMO protease cleaves >85% of 3 µg of control substrate in one hour at pH 8.0 at 30 °C.	
<b>Activity</b>	≥3,000 units/mg protein	
<b>Reference</b>	Elmore, Z.C., et al., BMC Biology 9, 74 (2011).	

This product is for research use only and not for diagnostic or therapeutic use.