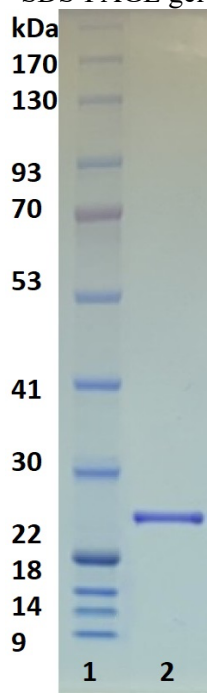
Aurora Biolabs
High Purity Protein for Research

Recombinant SUMO Protease

Catalog Number: 190003

Product Name	Recombinant SUMO Protease
Synonym(s)	ULP1, Ulp, Ubl-specific protease 1
Quantity	1000 Units, 2.5 units/ul
Host Species	Saccharomyces cerevisiae
Molecular weight	27.4 kDa
Purity	>90% by SDS-PAGE
Tag	N-terminal His tag
Expression Source	E. coli
GenBank Accession #	QHB12236.1
Application	recombinant protein SUMO tag removal, recombinant protein characterization, ELISA, Western blot, crystallization studies.
Formulation	20 mM Tris-HCl, pH8.0, 350 mM NaCl, 10% Glycerol, 1mM 2-Mercaptoethanol
Storage and Stability	Stable for 12 months at -80°C, Avoid freeze/thaw cycles

SDS-PAGE gel



1 – MW Marker
2 – SUMO protease

Description	SUMO Protease otherwise known as Ulp1, is a recombinant fragment of ULP1 (Ubl-specific protease 1) from *Saccharomyces cerevisiae*. 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 P.H range of 7.0 – 9.0, for lower temperatures allow more time for the cleavage reaction.
Unit Definition	One unit of SUMO protease cleaves >85% of 2 µg of control substrate in one hour at pH 8.0 at 30 °C.
Activity	⩾3,000 units/mg protein
Reference	Elmore, Z.C., et al., BMC Biology 9, 74 (2011).

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