

# SUMO protease



Product Name	SUMO protease
Catalog No	IT-000- SUMOProt
Source	Recombinant protein from E.coli.
Formulation	50% glycerol, 75 mM Tris pH 8.0, 150 mM NaCl, 0.5 mM DTT and 1 mM EDTA
Protein	6xHis tagged ULP1 [ <i>Saccharomyces cerevisiae</i> ] (aa 403-621; GenBank# KZV07496).
Applications	SUMO proteins are a family of small proteins covalently attached to other proteins in cells to modify their function. SUMOylation is a post-translational modification involved in many cellular processes. SUMO protease detaches SUMO from a SUMOylated protein.
Activity	$\geq 5$ U/ $\mu$ l; No detectable RNAase, DNAase or other protease activity.
Definition of Activity Unit	One unit of SUMO Protease is defined as the amount of enzyme needed to cleave 85% of 2 $\mu$ g of substrate protein at 25°C in one hour. Enzyme activity is assayed in 1xPBS.
Storage	Keep it at 4°C if used within a month. For long term storage, split it into small aliquots and keep at -80°C. Avoid repeated freezing and thawing. The product will be expired one year after receiving if stored properly. Non-hazardous. No MSDS required.
Use Limitation	For research use only, not for use in diagnostic procedures.
Note	10X SUMO Protease Buffer: 500 mM Tris-HCl, pH 8.0, 2% Igepal (NP-40), 1.3 M NaCl, 10 mM DTT. SUMO protease tolerates 2M Urea, 0.5M Gu-HCl, 1M Triton X100, 150mM NaCl, 20mM DTT, or 20mM b-mercaptoethanol (see reference).
Reference	Malakhov, MP, et al. (2004). SUMO fusions and SUMO-specific protease for efficient expression and purification of proteins. <i>J Structural and Functional Genomics</i> 5: 75–86.