

Data Sheet

SUMO Protease

SKU No.: 03-1001, 03-1005

Description	SUMO Protease recognizes SUMO tertiary structure to cleave and release the target protein from the Im7-bound CL7 tag.
Purity	~100% (SDS gel analysis)
Enzyme Source	Yeast protein over expressed in <i>E. coli</i> with histidine (His) tag
Cleavage Site	SUMOP cleaves after the C-terminal glycine at the end of the SUMO sequence. If the target protein is fused downstream of the SUMO C-terminus, SUMOP cleavage renders the native protein sequence without any additional amino acids.
Cleavage Efficiency	1 µg protease will digest 2 mg protein with 99% efficiency at 4°C in 40 minutes.
Storage/Shipping Concentration	~7.5 mg/mL
Recommended Storage Conditions	-80°C long term or -20°C for 2-3 months in shipping buffer
Reactivation Details	To remove the CL7 protein and reactivate the resin, wash the column with guanidine hydrochloride, exchanging it into physiological buffer.

Additional processing information: SUMOP releases CL7-tagged proteins from the Im7 resin-bound CL7 tag. The final protease concentration in the eluted sample comprises ~1.5-3% of total impurities. If needed, SUMOP can be purified from the sample with a His-trap column or via size exclusion chromatography.

You can download the full protocol from <https://trialtusbioscience.com/products/#protocols>.

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Licensing Information

TriAltus Bioscience holds the exclusive, worldwide license to the CL7 protein purification technology platform. It was licensed from the University of Alabama at Birmingham (UAB) in Birmingham, Alabama, USA. An international patent filing has been made with protection being sought in the United States, Europe, and other major markets. The CL7 purification technology is available for research use. For commercial use or resale, contact us at sales@trialtusbioscience.com to discuss commercial licensing.

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