

Code; RP-SMp-250

Lot; xxxx

Size; 2,500units



ProteinExpress

## SUMO protease, His-tagged

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**Concentration :** 10,000units/mL

**Storage :** Stored at -20°C. Avoid repeated freeze-thaw cycles.

**Description :** SUMO Protease, also known as Ulp, is a recombinant fragment of ULP1 (Ubl-specific protease 1) from *Saccharomyces cerevisiae*. It is highly specific for the SUMO protein fusion, recognizing the tertiary structure of SUMO rather than an amino acid sequence.

**Storage Buffer :**

50 mM Tris-HCl (pH8.0)  
100 mM NaCl  
5 mM DTT  
20% Glycerol

**Source :** Recombinant protein with N-terminal 6-His tag, expressed in *E.coli*.

**Molecular Weight :** 25KDa.

**Purity :** > 90%, as determined by SDS-PAGE visualized by CBB stain.

**Unit Definition :** One unit is defined as the amount of SUMO protease required to remove >90% of the SUMO-fusion protein 5µg in 1 hour at 30°C.

**Cleavage condition:**

It is recommended to use 1 unit of SUMO protease to 1-10µg of target protein in 1 hour at 30°C. The efficiency of cleavage may vary with the sequences around the cleavage site and the conformation and the solubility of target protein. It is necessary to consider the optimum reaction conditions.

Example of the reaction buffer:

50mM Tris-HCl (pH7.0), 150mM NaCl, 1mM EDTA,  
1mM DTT

**Removal of SUMO Protease after Cleavage:**

SUMO Protease contains His tags. After cleavage of the target protein, SUMO Protease can be removed along with the tags from the cleavage reaction by Ni chelating resin.

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