

SUMO Protease

Product Specifications

Catalog Number	Specification
MS01050	50U
MS01250	250U
MS01500	500U

Definition of Enzyme Activity

1U was meant the required enzyme dosage that more than 95% target protein have been digested after reacting 16h at 4°C.

Product Introduction

SUMO Protease, also known as Ulp, is a highly active cysteine protease that recognizes the tertiary structure of the SUMO protein, thus the SUMO protein can be cut down from the recombinant fusion protein efficiently and specifically. SUMO Protease maintains a high activity in a wide range of reaction systems such as temperature (4-30 ° C), pH (5.5-9.5), and so on. The SUMO Protease is a recombinant protease that has been purified from *E. coli*. SUMO Protease have a His tag which can remove by affinity chromatography.

Storage Condition

It could be preserved for 2 years at -80°C, and it could be preserved for 6 months at -20°C. Suggest to subpackage into small volume yourself, and avoid repeated freeze-thaw cycles.

Operation Method

1. Made up the follow reaction system in EP tube:

Fusion protein	1mg
SUMO Protease	10U

2. Mixed up and then incubated at suitable temperature, suggest reaction at 4°C overnight.

3. Analyzed by SDS-PAGE after reaction, and SUMO Protease could be removed by His tag affinity chromatography.

Notes

1. In order to achieve better digestion effect, please make sure that the target protein was high-purity .

2. For most of the fusion protein, the concentration of NaCl 150mM is the best reaction solution of SUMO Protease. However, according to the actual situation, the concentration of NaCl can be adjusted between 100 mM and 300 mM to achieve the best effect.

3. The concentration of imidazole should be less than 150mM, if higher than this concentration will affect the activity of SUMO Protease.

4. Fusion protein should be removed denaturant in order to carry out enzyme digestion reaction.

5. This product is limited to the scientific research of professionals.