KIAGENE FANAVAR

SUMO protease (His tagged)

Cat. No:

FPLF017.0250
FPLF017.0500
FPLF017.1000

Contents:

Components	50 RXN	100 RXN	200 RXN
SUMO protease (His tagged) 10 U/µl	250 µl	500 µl	1000 µl

Kit storage:

⚠ This kit should be stored at: -20°C short term (4 months), -80°C long term (more than 1 year).
If properly stored, all kit components are stable until the expiration date printed on the label.

SUMO Protease Storage Buffer:

20 mM Na2HPO4 pH 7.8, 150 mM NaCl, 50% glycerol, 0.5 mM DTT.

Application

SUMO (Small Ubiquitin-like Modifiers) proteases recognize the tertiary structure of SUMO and cleave it from recombinant fusion proteins. SUMO protease is purified Ulp1 from an E. coli expression system containing S. Cerevisiae Ulp1. The N-terminus of SUMO protease has a His-tag that can be removed with Ni-NTA agarose.

- Removal of fusion tags from recombinant proteins
- Purification of proteins and peptides
- Fusion protein with precise cleavage
- Unit Definition: One unit of SUMO Protease is defined as the amount of enzyme needed to cleave 85% of 2µg of substrate protein at 30°C in one hour.

Handling Requirements and Safety Information

⚠ use RNase-free and DNase-free materials

⚠ Do not use any modified Protocols.

⚠ Do not pool reagents from different lot numbers.

⚠ Immediately after usage, close all bottles in order to avoid leakage, varying buffer concentrations or buffer conditions.

⚠ After first opening store all bottles in an upright position.

⚠ Wear protective disposable gloves, laboratory coats and eye protection, when handling samples and kit reagents.

⚠ Do not contaminate the reagents with bacteria, virus, or nucleases. Use disposable pipets and nuclease free pipet tips only, to remove aliquots from reagent bottles.

Protocol

1. Add 5 µl of SUMO protease to 95 µl of fusion protein(1-1.5mg/ml) (*Ni-NTA agarose eluted fusion protein).
2. Add DTT to a final concentration of (0.5-1) mM.
3. Mix and incubate at 30 °C for 2 hours or 4 °C overnight.
4. Analysis by SDS-PAGE using an appropriate gel.

⚠Sequence Molecular Weight: approximate 37 kDa
⚠Unnecessary dialysis.