SUMO-Specific Protease 2 (SENP2)

Catalog Number	LDG0015RG
Package	100 µg / 1 mg / Customized package

For full product information, images and publications, please visit our website.

Overview

Description

SENP2 is an enzyme that belongs to the protease family C48. Structurally, SENP2 harbors the C48 catalytic domain which is typically located close to the C terminus and has been reported to engage two SUMO pathways. The first is cleavage processing of small ubiquitin-like modifiers (SUMO1, SUMO2, and SUMO3) propeptides, subsequently leading to protein maturation. The second is the cleavage processing of SUMO1, SUMO2, and SUMO3 from targeted proteins. SENP2 protease has a His-tag for easy removal from a cleavage reaction by using nickel affinity resins.

Product Note

- Procedure:

1. To optimize cleavage conditions, it is recommended to run preliminary cleavage reactions at a small scale.
2. Dilute the target protein sample to 1-2 mg/mL with PBS solution.
3. An effective general range of the SENP2 protease: target protein ratio is 1 µg :50 µg.
4. Reaction can be performed at 4°C-37°C. 4°C is recommended as the starting standard. Incubate the reaction mixture at 4°C for 16 hours.
5. Determine cleavage level of the samples by SDS-PAGE analysis.
6. Once optimize for the cleavage condition, the cleavage reactions can be scaled up to cleave a large amount of the target fusion protein.

- SENP2 protease: target protein ratio of 1 µg :50 µg is used for most fusion protein cleavage. Cleavage efficiency may differ based on structure and properties of each target protein, we recommend testing several enzyme-to-substrate ratios, temperatures, and incubation times.
- We recommend performing longer cleavage time at lower temperatures (4°C) for cleavage efficiency.

Specifications

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Expression System

Escherichia coli

Storage Buffer

55mM Tris-HCl, 165 mM NaCl, pH7.5

Purity

>95% as determined by SDS-PAGE analysis.

Endotoxin Level

<1 EU per 1 μg of the protein by the LAL method.

Form

Liquid

Instruction

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Stability & Storage

This product is stable after storage at:

- -20°C or -80°C long-term storage under sterile conditions. Avoid repeated free-thaw cycles.

Image

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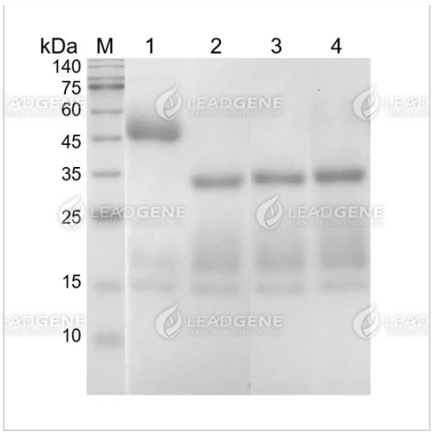
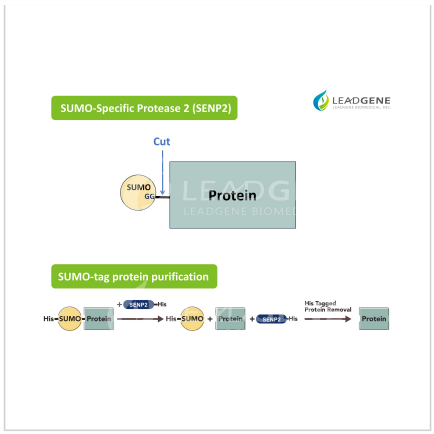


SDS-PAGE analysis of substrate digested with SUMO-Specific Protease 2 (SENP2) in different ratio.
Lane1: substrate only, Lane2: 1:25, Lane3: 1:50, Lane4 : 1:100

SDS-PAGE analysis of recombinant SUMO-Specific Protease 2 (SENP2).



SUMO-Specific Protease 2 (SENP2) recognizes SUMO tertiary structure and cleaves at the C-terminal end of the Gly–Gly sequence in SUMO.

Disclaimer : For Research Use or Further Manufacturing Only.

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