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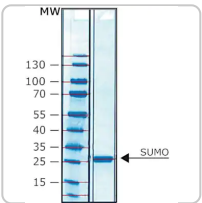
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Toutes les photos (1)

SAE0067 ▶ Sigma-Aldrich®

SUMO Protease

★★★★★ 5.0 (1)

His tagged recombinant protein, lyophilized powder

Synonyme(s):

Small Ubiquitin-like Modifier Protease, ULP, Ubiquitin like protease, Ubiquitin-homology domain protein PIC1, Ubl-specific protease 1

Documents

- ↓ FDS
- 🔍 COO/COA

📄 Fiche des caractéristiques

Référence	Conditionnement	Disponibilité	Prix	Quantité
SAE0067-2500UN	2500 UNITS	✅ Only 2 left in stock (more on the way)	Détails... 454,00 €	− + ⓘ

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PRODUITS RECOMMANDÉS



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PROPRIÉTÉS

Recombinant	expressed in <i>E. coli</i>
Niveau de qualité	200
Essai/Dosage	≥95% (SDS-PAGE)
Forme	lyophilized powder
Poids mol.	27 kDa
Expédié(e)s dans	ambient
Temp. de stockage	−20°C

Catégories apparentées

Proteases

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Description générale

SUMO proteases are a general class of enzymes that specifically remove the post-translational protein modification (PTM) known as small ubiquitin-related modifier (SUMO), which falls into the PTM class of ubiquitin and/or ubiquitin-like proteins (UBL). The enzyme commonly referred to as 'SUMO protease' is the Ubl-specific protease 1 (Ulp1) from *Saccharomyces cerevisiae*. This was the first of this class of enzymes to be isolated. SUMO protease specifically cleaves the SUMO moiety in a 'scarless' manner. SUMO protease recognizes the tertiary structure of the Ubiquitin-like SUMO domain and hydrolyzes the peptide bond in the x-Gly-Gly-x sequence after the Gly-Gly bond, at the C-terminus of the SUMO domain. In addition to cleavage of natural SUMO-modified proteins, SUMO protease is used to cleave recombinant SUMO fusion proteins. The SUMO domain is a known solubility-enhancing fusion tag used in recombinant protein expression. A histidine tag can also be added at the N-terminus of the SUMO domain as a purification tag. This SUMO protease product carries a 6x histidine tag. Thus it can be easily removed together with the cleaved SUMO domain, following the digestion reaction

SUMO protease is active over a wide range of temperatures (2–30 °C), ionic strengths (0–400 mM NaCl), and pH ranges (6–8.5). However, its activity may vary depending on the substrate and conditions. Researchers will need to optimize their specific reaction conditions. As an initial suggestion, 20 units of SUMO protease can be used per mg of target protein for 1 hour at 30 °C, or overnight at 2–8 °C. The cleavage efficiency can then be estimated by SDS-PAGE. If necessary, the amount of SUMO protease can then be adjusted. SUMO protease works better in the presence of reducing agents, e.g., 0.5–2 mM DTT. DTT in the reaction mixture can significantly enhance cleavage efficiency, especially during longer incubations

Store the reconstituted product at –20 °C. It is recommended to reconstitute the enzyme in 100 µL of either water or 50% glycerol (v/v), supplemented with 1 mM DTT. Solutions in water/DTT should be stored in frozen aliquots to avoid freeze-thaw cycles, which can adversely affect the protease activity.

Définition de l'unité

One enzyme unit is defined as the amount that will cut 90% of 100 pmol of SUMO-GST in 1 hour at 30°C.

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Code de la classe de stockage

11 - Combustible Solids

WGK

WGK 2

Flash Point(F)

Not applicable

Point d'éclair C

Not applicable

DOCUMENTATION

Certificat d'analyse

Saisir un numéro de lot pour rechercher un certificat d'analyse (COA).

Numéro de lot

e.g. 023J5431

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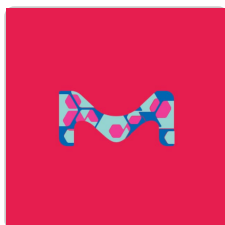
Rechercher

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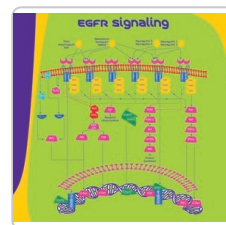
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28562

Atto 488 maleimide

BioReagent, suitable for fluorescence, ≥90% (HPLC)

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Sigma-Aldrich

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Heparin-Binding EGF-Like Growth Factor human

HB-EGF, recombinant, expressed in baculovirus infected Sf21 cells, lyophilized powder, suitable for cell culture

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ARTICLES REVUS PAR DES PAIRS

Plasmonically Enhanced CRISPR/Cas13a-Based Bioassay for Amplification-Free Detection of Cancer-Associated RNA.

Lin Liu et al.

Advanced healthcare materials, 10(20), e2100956-e2100956 (2021-08-10)

Novel methods that enable sensitive, accurate and rapid detection of RNA would not only benefit fundamental biological studies but also serve as diagnostic tools for various pathological conditions, including bacterial and viral infections and cancer. Although highly sensitive, existing methods

Molecular mechanism of interactions between ACAD9 and binding partners in mitochondrial respiratory complex I assembly.

Chuanwu Xia et al.

iScience, 24(10), 103153-103153 (2021-10-15)

The dual function protein ACAD9 catalyzes α,β -dehydrogenation of fatty acyl-CoA thioesters in fatty acid β -oxidation and is an essential chaperone for mitochondrial respiratory complex I (CI) assembly. ACAD9, ECSIT, and NDUFAF1 interact to form the core mitochondrial CI assembly complex.

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Journal for immunotherapy of cancer, 10(4) (2022-04-17)

Type 1 conventional dendritic cells (cDC1s) are characterized by their ability to induce potent CD8+ T cell responses. In efforts to generate novel vaccination strategies, notably against cancer, human cDC1s emerge as an ideal target to deliver antigens. cDC1s uniquely

A PX-BAR protein Mvp1/SNX8 and a dynamin-like GTPase Vps1 drive endosomal recycling.

Sho W Suzuki et al.

eLife, 10 (2021-09-16)

Membrane protein recycling systems are essential for maintenance of the endosome-lysosome system. In yeast, retromer and Snx4 coat complexes are recruited to the endosomal surface, where they recognize cargos. They sort cargo and deform the membrane into recycling tubules that

The Rad51 paralog complex Rad55-Rad57 acts as a molecular chaperone during homologous recombination.

Upasana Roy et al.

Molecular cell, 81(5), 1043-1057 (2021-01-10)

Homologous recombination (HR) is essential for maintenance of genome integrity. Rad51 paralogs fulfill a conserved but undefined role in HR, and their mutations are associated with increased cancer risk in humans. Here, we use single-molecule imaging to reveal that the

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PROTOCOLES ET ARTICLES SCIENTIFIQUES

Articles

Tag Removal Proteases for Recombinant Protein Purification

Proteases for biotinylated tag removal for protein purification workflows with related reagents and technical resources.

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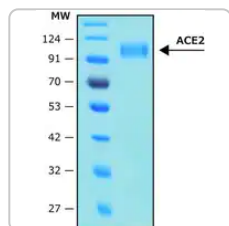
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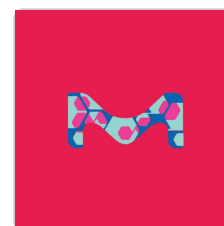
Sigma-Aldrich

SAE0064

Angiotensin Converting Enzyme-2, ACE2

Human recombinant, ≥ 1000000 U/mg, expressed in HEK 293 cells

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Sigma-Aldrich

SAE0059

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Évaluations

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4 ★		0
3 ★		0
2 ★		0
1 ★		0

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