PreScission Protease Instruction Manual

【Product Name】

PreScission Protease

【Catalog Number】

EDE0007

【Package Specification】

100 μL（5U/μL）

【Product Description】

PreScission Protease (also known as HRV 3C Protease) is purified from *E. coli* strains expressing the human rhinovirus (HRV) type 14 3C protease gene. This enzyme specifically recognizes the octapeptide sequence Leu-Glu-Val-Leu-Phe-Gln-Gly-Pro and cleaves between Gln and Gly residues under low-temperature conditions (4°C). It is commonly used for removing fusion tags from recombinant proteins.

【Applications】

Recombinantly expressed PreScission Protease carries a His-tag, making it suitable for on-column cleavage of His-tagged proteins. The cleaved His-tag and PreScission Protease can bind to the His affinity purification column, while the target protein remains in the flow-through, facilitating the purification of the desired protein.

【Quality Assurance】

PreScission Protease has a molecular weight of approximately 46 kDa, with a purity of ~95% as verified by SDS-PAGE analysis.

【Definition of Enzyme Activity Unit】

One unit of activity is defined as the amount of enzyme required to cleave 83.3 ng of tagged protein at 4°C within 2 hours, achieving a cleavage efficiency of more than 95%.

【Storage Solution】

50 mM Tris-HCl

150 mM NaCl

1 mM EDTA

1 mM DTT

50% Glycerol, pH 7.5

【Usage Instructions】

1. Reaction temperature: 4°C;

2. Reaction time: 2 hours;

3. Enzyme amount: 1.2 U of PreScission Protease is sufficient to cleave 100 ng of tagged protein. (The characteristics of different tagged proteins may vary. It is recommended to optimize the enzyme-to-substrate ratio for specific applications)

【Storage Conditions and Shelf Life】

Shelf life: 1 year. Store at -20°C;

For long-term storage, aliquot and store at -80°C to avoid repeated freeze-thaw cycles.

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