

## Recombinant PreScission Protease (rPPase)

#R00509

Size: 100 IU/250 IU

### Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.CHAR(10)

- 6 months from date of receipt, -20 to -70 °C as supplied.CHAR(10)

- 3 months, -20 to -70 °C under sterile conditions after opening.



**Warning:** This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

### Background

PreScission Protease is a fusion protein of glutathione S-transferase (GST) and human rhinovirus (HRV) type 14 3C protease. The protease specifically recognizes a subset of sequences which include the core amino acid sequence Leu-Phe-Gln/Gly-Pro cleaving between the Gln and Gly residues. Substrate recognition and cleavage are likely to be dependent not only upon primary structural signals, but also upon the secondary and tertiary structures of the fusion protein as well.

### Product Specification

|                                                 |                                                                                                                                                                                                                                                                        |
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| <b>Synonyms</b>                                 | 3C protease, Picornain 3C, PSP                                                                                                                                                                                                                                         |
| <b>Source</b>                                   | Escherichia coli.                                                                                                                                                                                                                                                      |
| <b>Unit Definition</b>                          | One unit is defined as the amount of enzyme needed to cleave 100 µg of fusion protein in 16 hours to 90 % completion at 5 °C in a buffer containing 50 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10 mM EDTA, 1 mM dithiothreitol, and 50 % glycerol. Sterile colorless liquid. |
| <b>Physical Appearance</b>                      |                                                                                                                                                                                                                                                                        |
| <b>Cleavage Buffer</b>                          | 50 mM Tris-HCl, pH 8.0, 150 mM NaCl, 10 mM EDTA, 1 mM dithiothreitol, and 50 % glycerol. Chill to 5 °C prior to use.                                                                                                                                                   |
| <b>Recommended Conditions for Cleavage of a</b> | During cleavage reactions, it is recommended that samples be removed at various time points                                                                                                                                                                            |

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| <b>Fusion Protein</b> | and analyzed by SDS-PAGE to estimate the yield, purity, and extent of digestion. The amount of PreScission Protease, temperature and length of incubation required for complete digestion of a given GST fusion partner may vary depending on the fusion partner. Optimal conditions for each fusion should be determined in pilot experiments. Digestion may be improved by adding Triton™ X-100, Tween™ 20 or Nonidet™ P40 to a concentration of 0.01 %. Concentrations of these detergents up to 1 % do not inhibit PreScission Protease. |
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