

Active Recombinant Protease

Cat. No. Protease-92 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant 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. The Recombinant Protease is purified by proprietary chromatographic techniques.
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Source	E.coli
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Physical Appearance	Sterile filtered colorless solution.
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Cleavage Buffer	50 mM Tris-HCl, pH-7.0 (at 25°C), 150 mM NaCl, 1 mM EDTA, 1mM dithiothreitol. Chill to 5°C prior to use.
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Cleavage Conditions	For Cleavage of a Fusion Protein: During cleavage reactions, it is recommended that samples be removed at various time points 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, Nonidet™, or NP40 to a concentration of 0.01%. Concentrations of these detergents up to 1% do not inhibit PreScission Protease.
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Unit Defenition	One unit will cleave $\geq 90\%$ of 100 μg of a test GST-fusion protein in Cleavage Buffer (50mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, 1 mM DTT, pH 7.0 at 25°C) at 5°C for 16 hours.
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Stability	Recombinant Protease although stable at 14°C for 1 week, should be stored desiccated below -18°C. Please prevent freeze thaw cycles.
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GENE INFORMATION

Synonyms	Protease; Peptide Hydrolases; EC 3.4-; Glutamic acid proteases.
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