

Recombinant PreScission Protease Low Endotoxin

Catalog No.	CSI20274A	Quantity:	100 U
	CSI20274B		250 U
	CSI20274C		5000 U

Description: 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. Recombinant PreScission Protease works most effectively at 4 °C and can digest substrates at room temperature as well.

Source: *E. coli*

Formulation: Sterile liquid

Cleavage Buffer: 50 mM Tris-HCl, pH 7.0 (at 25°C) + 150 mM NaCl + 1 mM EDTA + 1 mM DTT. Chill to 5 °C prior to use.

Endotoxin Level: < 0.1 EU/µg

Unit Definition: One unit is defined as the amount of enzyme needed to cleave 100 µg of fusion protein in 16 hours to 90% completion in Cleavage Buffer (see above) at 5°C.

Storage & Stability: Product is stable for 6 months at -20 °C. Upon opening and under sterile conditions product is stable for 3 months at -20 °C. **Avoid repeated freeze-thaw cycles.**

Application Notes: **Recommended 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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