

## Recombinant PreScission Protease

<b>Catalog No.</b>	CSI20277A	<b>Quantity:</b>	100 U
	CSI20277B		250 U
	CSI20277C		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 as well.

**Source:** *E. coli*

**Physical Appearance:** Liquid solution

**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 ng/μg of protein.

**Specific Activity:** One unit will cleave ≥90% of 100 μg of a test GST-fusion protein in Cleavage Buffer (50 mM Tris-HCl Buffer + 150 mM NaCl + 1 mM EDTA + 1 mM DTT, pH 7.0 made at 25°C) at 5°C for 16 hours. Chill to 5°C prior to use.

**Storage & Stability:** Store at 4°C upon arrival. For long term storage, aliquot and store 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.

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**