Technical Data Sheet

Recombinant PreScission Protease

rPreScission Protease

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.

Catalog Number:	RC572-14
Source:	*Escherichia coli*
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.
Quantity:	100IU/250IU/5000IU
Unit Definition:	One unit will cleave ⩾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.
Cleavage Buffer:	50mM Tris-HCl, pH7.0 (at 25°C), 150 mM NaCl, 1 mM EDTA, 1 mM dithiothreitol. Chill to 5°C prior to use.
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 TritonTM X-100, TweenTM 20, NonidetTM, or NP40 to a concentration of 0.01%. Concentrations of these detergents up to 1% do not inhibit PreScission Protease.
Storage:	Should be stored in small aliquots at -20°C for long term.
Usage:	This material is offered by Bio Basic Canada for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE