

## Native E. coli PreScission Protease

Cat. No. NATE-0877

Lot. No. (See product label)

## Introduction

**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.

**Applications** 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.

**Synonyms** PreScission Protease; PSP

## **Product Information**

**Source** E. coli

**Appearance** Sterile colorless liquid.

**Purity** >90% by SDS-PAGE

Activity >10000 IU/mg

*Optimum pH* 7.0±0.5

**Buffer** 50 mM Tris-HCl, pH 7.0 (at 25 °C), 150 mM NaCl, 1 mM EDTA, 1 mM dithiothreitol.

Chill to 5 °C prior to use.

**Unit Definition** One unit is defined as the amount of enzyme needed to cleave 100  $\mu$ g of fusion

protein in 16 hours to 90% completion at 5°C in a buffer containing 50 mM Tris-HCl,

pH 7.0, 150 mM NaCl, 1 mM EDTA, and 1 mM DTT.

## Storage and Shipping Information

**Storage** Should be stored in small aliquots at -20°C to -80°C for long term.

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