

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

7.0±0.5

pН

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 μg 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

1/1

mM DTT.

Storage and Shipping Information

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