CREATIVE BIOMART®
Chromatography

PreScission Protease Protease

Product Information

Cat#No#	Pr-404C

Product Overview

PreScission Protease is a fusion protein of human rhinovirus (HRV) 3C protease and GST. It allows for on-column cleavage of GST tags and protein purification in one step.

Description

PreScission Protease is a fusion protein consisting of glutathione S-transferase (GST) and human rhinovirus (HRV) type 14-3C protease (1). The protease specifically recognizes a subset of sequences which include the core amino acid sequence Leu-PheGln/Gly-Pro cleaving between the Gln and Gly residues (2). 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. Since the protease is fused to GST, it is easily removed from cleavage reactions using Glutathione Sepharose 4B. Fusion proteins produced from pGEX-6P-1 (28-9546-48), pGEX-6P-2 (28-9546-50) and pGEX-6P-3 (28-9546-51) will be cleaved by PreScission Protease between the GST moiety and the cloned fusion partner. The molecular weight of PreScission Protease is approximately 46 kDa.

Characteristic

Specific cleavage – between the Gln and Gly residues of the recognition sequence LeuGluValLeuPheGln/GlyPro.
Time-saving – GST-tagged proteins can be cleaved while still bound to an affinity resin.
Low incubation temperature – enables low temperature cleavage of fusion proteins containing the HRV 3C protease recognition sequence.

Applications

Used for site-specific separation of the GST tag from proteins expressed using pGEX-6P vectors

Temperature stability

5 - 15°C

Elution buffer

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PreScission Protease Protease

50 mM Tris-HCl, 10 mM reduced glutathione, pH 8.0
Pack size
500 units
Kit contents
2000 units/ml (833 to 1000 units/mg) in 50 mM Tris-HCl (pH 8.0), 150 mM NaCl, 10 mM EDTA, 1 mM DTT, and 20% glycerol.

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