

# Product Datasheet

## Recombinant PreScission Protease Low Endotoxin Protein NBP2-61443-100IU

Unit Size: 100 IU

Store at -20C. Avoid freeze-thaw cycles.

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**NBP2-61443-100IU**

## Recombinant PreScission Protease Low Endotoxin Protein

Product Information	
Unit Size	100 IU
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Preservative	No Preservative
Purity	Peptide affinity purified
Buffer	50 mM Tris-HCl, pH 7.0, 150 mM NaCl, 1 mM EDTA, and 1 mM DTT.
Target Molecular Weight	43 kDa
Product Description	
Description	<p>PreScission protease is a cysteine protease derived from human rhinovirus - HRV3C Protease. rPP is a fusion protein of glutathione S-transferase (GST) and human rhinovirus (HRV) type 14 3C protease.</p> <p>One unit is defined as the amount of enzyme needed to cleave 100 ug 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.</p> <p><b>Source:</b> <i>E. coli</i></p>
Specificity/Sensitivity	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.
Details of Functionality	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.
Endotoxin Note	Less than 0.1 EU/ug of PreScission Protease as determined by LAL method.
Product Application Details	
Applications	Bioactivity
Recommended Dilutions	Bioactivity
Application Notes	<p>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. It works most effective at 4C but can digest substrates at room temperature. Optimal conditions for each fusion should be determined in pilot experiments. Digestion may be improved by adding Triton™ X-100, Tween™ 20 or Nonidet™ P40 to a concentration of 0.01 %.</p> <p>Concentrations of these detergents up to 1 % do not inhibit PreScission Protease.</p>



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### **Products Related to NBP2-61443-100IU**

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NBP2-61442-100IU	Recombinant PreScission Protease Protein
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#### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Peptides and proteins are guaranteed for 3 months from date of receipt.

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