

Product Datasheet

Recombinant TEV Protease His (N-Term) Protein NBP2-61441-300IU

Unit Size: 300IU

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

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NBP2-61441-300IU

Recombinant TEV Protease His (N-Term) Protein

Product Information	
Unit Size	300IU
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Preservative	50% glycerol
Purity	>90%, by SDS-PAGE
Buffer	0.2 um filtered solution in 25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 5 mM EDTA, 10 mM GSH
Target Molecular Weight	27 kDa

Product Description	
Description	<p>TEV protease encoded by the tobacco etch virus is a catalytic domain of the Nuclear Inclusion a (NIa) protein. It consists of 241 a.a. amino acids with the molecular weight of 27kDa. It contains N-terminal His-tag.</p> <p>Source: <i>Escherichia coli</i>.</p> <p>One unit is defined as the amount of enzyme needed to cleave 3 ug of fusion protein in 1 hour to 85 % completion at 30C in a buffer containing 50 mM Tris-HCl, pH 8.0, 0.5 mM EDTA, and 1 mM DTT.</p> <p>TEV recognizes the amino acid sequence of the general form E-X-X-Y-X-Q (or S)/X', and cleaves between Q (or S)/X'. In this form X and X' stand for any of the amino acid residues, except that X' cannot be P. The optimal cleavage site is ENLYFQ/G.</p>
Gene ID	1502321
Gene Symbol	TEVgp1
Details of Functionality	TEV recognizes the amino acid sequence of the general form E-X-X-Y-X-Q (or S)/X', and cleaves between Q (or S)/X'. In this form X and X' stand for any of the amino acid residues, except that X' cannot be P. The optimal cleavage site is ENLYFQ/G. As having the absolute specificity and widely using conditions like broad pH range and ionic strength, the TEV protease became more versatile than EK, thrombin and other protease used in biochemical applications, especially recombinant protein production.
Inhibitor Target	Caspase 8

Product Application Details	
Applications	Enzyme Activity
Recommended Dilutions	Enzyme Activity
Application Notes	The optimal temperature for cleavage is 30C; however, the enzyme can be used at temperatures as low as 4C.



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Products Related to NBP2-61441-300IU

4469-TP-200	TEV Protease [Unconjugated]
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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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