

Active Recombinant TEV Protease Protein (231 aa), N-His-tagged

Cat. No. Protease-308P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Tobacco Etch Virus Protease (rTEV) contains 231 amino acids with N-terminal His tagged was expressed in E. coli. A fully biologically active molecule, rTEV has a molecular mass of 28.4 kDa and is obtained by proprietary chromatographic techniques.
Species	TEV
Source	E.coli
ProteinLength	231
Description	Tobacco Etch Virus Protease is a highly site-specific cysteine protease that is found in the Tobacco Etch Virus (TEV). The optimum recognition site for this enzyme is the sequence Glu-Asn-Leu-Tyr-Phe-Gln-(Gly/Ser) [ENLYFQ(G/S)] and cleavage occurs between the Gln and Gly/Ser residues, The most commonly used sequence is ENLYFQ G. The protease is used to cleave affinity tags from fusion proteins. The optimal temperature for cleavage is 30 centigrade; also it can be used at temperature as low as 4 centigrade. It is recommended that the cleavage for each fusion protein be optimized by varying the amount of recombinant viral TEV protease, reaction time, or incubation temperature. It can be removed by Ni ²⁺ affinity resin.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	6

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	IU/μL
Molecular Mass	28.4 kDa, observed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE analyses.
Unit Definition	One unit of TEV protease cleaves > 85% of 3 μg of control substrate in 1 hour at pH 8.0 at 30 centigrade.
Storage	Recombinant Tobacco Etch Virus Protease (rTEV) remains stable up to 1 year at -20 centigrade from date of receipt. Please avoid freeze-thaw cycles.
Storage Buffer	Sterile liquid solution contains 50mM Tris, 5mM DTT, 50% glycerol, pH7.5.
GENE INFORMATION	
Official Symbol	Protease
Synonyms	Protease

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