

Product Name	Recombinant TEV Protease	<p>SDS-PAGE gel</p> <p>kDa</p> <p>170 130 93 70 53 41 30 22 18 14</p> <p>1 2</p> <p>1 – MW Marker 2 – TEV</p>
Synonym(s)	Tobacco Etch Virus, rTEV, TEV, P1 protease	
Quantity	1000 Units, 10,000 Units	
Lot Number	A90400	
Molecular weight	27 kDa	
Purity	>90% by SDS-PAGE	
Tag	N-terminal His tag	
Expression Source	E. coli	
GenBank Accession #	NC_001555.1	
Application	recombinant protein tag removal, recombinant protein characterization, ELISA, Western blot, crystallization studies.	
Formulation	25 mM tris, pH7.5, 150 mM NaCl, 40% Glycerol, 0.02% Na-Azide	
Storage and Stability	Stable for 12 months at -80°C, Avoid freeze/thaw cycles	
Description	<p>Tobacco Etch Virus nuclear-inclusion-a endopeptidase or TEV is highly sequence specific cysteine protease. It has a strict 7 amino acid cleavage recognition sequence of Glu-Asn-Leu-Tyr-Phe-Gln ↓ (Gly/Ser). The high specificity makes this protease excellent for the removal of affinity-tags from purified recombinant proteins. Purified TEV was expressed in E.coli and is shipped in 4°C packaging to preserve activity. TEV cleavage is best performed at room temperature in a P.H range of 4 – 9.</p>	
Unit Definition	<p>One unit of TEV protease cleaves >85% of 3 µg of control substrate in one hour at pH 8.0 at 30 °C.</p>	
Activity	<p>≥3,000 units/mg protein</p>	
Reference	<p>Phan J et al., The Journal of Biological Chemistry 277, 20564-50572 (2002) Dougherty W et al., Virology, 172, 302-310 (1989).</p>	

This product is for research use only and not for diagnostic or therapeutic use.