

## Active Recombinant TEV Protease, His-tagged

Cat. No. Protease-23T Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant TEV protease contains an N-terminal His tag and can be easily removed by immobilized metal affinity chromatography (IMAC) from the cleavage reaction. The enzyme is compatible for both in-solution and on-column cleavage reactions. TEV Protease is purified from E. coli by proprietary chromatographic techniques and is >90% pure when visualized on an SDS-PAGE gel.
<b>Species</b>	TEV
<b>Source</b>	E.coli
<b>Description</b>	TEV Protease is a 27 kDa engineered form of Tobacco Etch Virus (TEV) protease. The optimum recognition site for TEV protease is the seven-amino-acid sequence Glu-Asn-Leu-Tyr-Phe-Gln-(Gly/Ser) [ENLYFQ(G/S)] with cleavage occurring between the Gln and Gly/Ser residues. The enzyme is highly specific and active for its seven-amino acid sequence with minimal off-target effects which makes it an ideal choice to remove affinity tags from fusion proteins after protein purification. The optimal temperature for cleavage is 30 centigrade; however, it can be used at temperature as low as 4 centigrade.
<b>Bio-activity</b>	10,000 U/ml (~10,000 U/mg)
<b>Unit Definition</b>	One unit of TEV Protease cleaves $\geq 85\%$ of 3 $\mu\text{g}$ control substrate in 1 hour at 30 centigrade. Unit Assay Conditions: The cleavage assay is performed in 1X TEV Buffer (50 mM

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Tris-HCl, pH 8.0, 0.5 mM EDTA) and 1 mM DTT with 1 unit of enzyme and 3 µg control substrate at 30 centigrade for 1 hour in a total volume of 30 µl.

**Storage** Protease and the supplied components must be stored at -20 centigrade.

**Concentration** 10 Units/µL

**Storage Buffer** 50 mM Tris-HCl, pH 7.5, 50 mM NaCl, 1 mM DTT, and 50% Glycerol.  
 TEV Protease is supplied with a vial of 20X TEV buffer (1 M Tris-HCl (pH 8.0), 10 mM EDTA) and a vial of 100 mM DTT.  
 Highly specific cleavage activity  
 Enhanced enzyme stability for prolonged protease activity  
 Activity over a broad temperature (+4 centigrade to 30 centigrade) and pH (6.0 to 8.5) range  
 His tag to facilitate its removal from the digested protein samples

**Shipping** Product requires shipping on ice packs.

## GENE INFORMATION

**Official Symbol** Protease

**Synonyms** Protease

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