

Active Recombinant TEV Protease, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	TEV
Source	E.coli
Description	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.
Bio-activity	10,000 U/ml (~10,000 U/mg)
Unit Definition	One unit of TEV Protease cleaves ≥85% of 3 µg control substrate in 1 hour at 30 centigrade. Unit Assay Conditions: The cleavage assay is performed in 1X TEV Buffer (50 mM

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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