

Recombinant Tobacco Etch Virus Protease

Cat. No. TEVProtease-07T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Tobacco Etch Virus Protease produced in E.coli I has a molecular mass of approximately 27 kDa.
Species	Tobacco
Source	E.coli
Description	Recombinant TEV Protease(rTEV) is a site-specific protease purified from E. coli. The protease can be used for the removal of affinity tags from fusion proteins. The seven-amino-acid recognition site for rTEV is Glu-Asn-Leu-Tyr-Phe-Gln-Gly with cleavage occurring between Gln and Gly. The optimal temperature for cleavage is 30°C; however, the enzyme can be used at temperatures as low as 4°C. rTEV contains both GST and His tag, and can be easily removed from the digestion reaction by affinity chromatography.
Unit Definition	One unit of rTEV cleaves $\geq 85\%$ of 3 μg control substrate in 1 h at 30°C.
10xTEV buffer	0.50 M Tris-HCl (pH 8.0), 10 mM DTT, 5 mM EDTA.
Recommended Conditions for Cleavage of a Fusion Protein	A number of variables can be changed to optimize the cleavage of any specific protein. The amount of rTEV, the temperature of the incubation, and the time needed for cleavage may be examined. If the protein of interest is heat-labile, then 4°C incubations are recommended. Reactions at 4°C will require longer incubation time and/or more rTEV.

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Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Storage	Store rTEV at -70°C for long term or at -20°C for < 6 months.