

TEV Protease

Cat. No.: Z02798-10000

Size: 10000.0 IU

Synonyms: Tobacco Etch Virus Protease (TEV Protease)

Description:

Recombinant TEV Protease is a site-specific protease purified from *E. coli* by the affinity tag, GST tag. The seven-amino-acid recognition site for TEV protease is Glu-Asn-Leu-Tyr-Phe-Gln-(Gly/Ser) [EN-LYFQ(G/S)] 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. Following digestion, TEV protease can be removed from the reaction via the GST tag sequence by affinity chromatography (GenScript Glutathione Resin L00206).

Source: *E. coli*

Biological Activity: One unit is defined as the amount of enzyme needed to cleave 3 µg of fusion protein in 1 hour to 85 % completion at 30°C in a buffer containing 50 mM Tris-HCl, pH 8.0, 0.5 mM EDTA, and 1 mM DTT.

Formulation: A 0.2 µm filtered solution in 25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 5 mM EDTA, 10 mM GSH, with 50 % Glycerol.

Appearance: Clear colorless liquid.

Purity: > 90 % by SDS-PAGE analysis.

Storage: Store recombinant TEV protease at -70°C for long term or at -20°C for < 6 months.