

Recombinant Tobacco Etch Virus Protease, His-Tagged (rTEV)

Product Information

Cat#	DIA-846
Descriptions	Recombinant Tobacco Etch Virus Protease, His-Tagged (rTEV) is fused with a polyhistidine tag for simple one-step affinity purification, specifically recognizes the ENLYFQ/S heptapeptide sequence with high cleavage specificity, and is the most commonly used tool for fusion tag removal in recombinant protein production.
Applications	Recombinant Tobacco Etch Virus Protease, His-Tagged (rTEV) is applied in affinity purifiable TEV protease detection kits and fusion tag removal assay reagent development.
CAS No.	461-02-1816
Enzyme Source	Escherichia coli
Synonyms	P1 Protease
Form	Clear colorless liquid A 0.2 um filtered solution in 25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 5 mM EDTA, 10 mM GSH, with 50% Glycerol.
Reaction	TEV protease encoded by the tobacco etch virus is a catalytic domain of the Nuclear Inclusion a (Nla) protein. It recognizes the amino acid sequence of the general form E-X-X-Y-X-Q (or S)/X', and cleaves between Q (or S)/X'. The optimal cleavage site is ENLYFQ/G.
Activity Definition	One unit is defined as the amount of enzyme needed to cleave 3 mug 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.
Purity	> 90% by SDS-PAGE
Package	300 IU, 1000 IU