

rTEV Protease

Product Information

Cat#	DIA-573
Description	A genetically engineered TEV protease expressed in <i>E. coli</i> with a His-tag (6× His) and purified. It retains the native TEV enzyme activity while exhibiting enhanced stability and specificity over a broad temperature range. Used to cleave affinity tags from fusion proteins.
Form	Liquid
Unit Definition	One unit of rTEV protease activity is defined as the amount of enzyme required to cleave over 85% of 3 µg of substrate protein in 1 hour at 30 °C in 1× rTEV buffer (50 mM Tris-HCl, pH 8.0, 0.1 mM EDTA, 1 mM DTT).
Synonyms	Recombinant TEV protease
Buffer	25 mM Tris-HCl, 150 mM NaCl, 1 mM EDTA, 5mM DTT, 50% (v/v) Glycerol, pH 8.0
Applications	Cleavage of affinity tags from fusion proteins.
Product Overview	Recognizes the seven-amino-acid sequence EXXYXQ↓(G/S), commonly Glu-Asn-Leu-Tyr-Phe-Gln↓-Gly. Optimal activity at pH 7.0 and 30 °C, but retains activity from pH 6.0–8.5 and 4–30 °C, allowing flexible reaction conditions. Post-cleavage, the N-terminal 6× His-tag enables removal via Ni-NTA resin for efficient target protein purification.
Purity	≥95% (SDS-PAGE)
Package	1/5/10 KU