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TEV

Catalog #:PRPS-592

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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. The rTEV contains His tag.The rTEV is purified by proprietary chromatographic techniques.

Synonyms:rTEV, TEV, P1 protease.

Source: Escherichia Coli.

Physical Appearance: Sterile liquid formulation.

Purity: Greater than 90.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation:
The rTEV contains 0.50M Tris-HCl pH 8.0, 10mM DTT and 5mM EDTA.

Stability:
rTEV althoμgh stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
TEV protease is the common name for the 27 kDa catalytic domain of the Nuclear Inclusion a (NIa) protein encoded by the tobacco etch virus (TEV). Because its sequence specificity is far more stringent than that of factor Xa, thrombin, or enterokinase, TEV protease is a very useful reagent for cleaving fusion proteins. TEV protease recognizes a linear epitope of the general form E-Xaa-Xaa-Y -Xaa-Q-(G/S), with cleavage occurring between Q and G or Q and S. The most commonly used sequence is ENLYFQG.

Biological Activity:
10,000 Units/1mg.

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