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## Product Data Sheet

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Product Name: TEV  
Cat. No.: GP24804  
Batch No.: 1

### Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Synonyms            | rTEV; TEV; P1 protease.   |                    |                         |
| Formulation         | The rTEV contains 25mM Tris, 75mM NaCl, 5mM EDTA, 10mM GSH, 50% Glycerol. |                    |                         |

### Introduction

TEV protease is the common name for the 27 kDa catalytic domain of the Nuclear Inclusion a (Nla) 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.

### Stability

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

### Background

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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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