



## Technical Data Sheet

### Recombinant Tobacco Etch Virus Protease (rTEV)

<b>Catalog Number:</b>	RC572-13
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Description:</b>	TEV Protease, Recombinant (rTEV) is a site-specific protease purified from <i>E. coli</i> by the affinity tag, GST tag. 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. Following digestion, TEV Protease can be removed from the reaction via the GST tag sequence by affinity chromatography.
<b>Quantity:</b>	300IU/1000IU/10,000IU
<b>Unit Definition:</b>	One unit of rTEV cleaves $\geq 85\%$ of 3 $\mu\text{g}$ control substrate in 1 h at 30°C.
<b>10xTEV buffer:</b>	0.50 M Tris-HCl (pH 8.0), 10 mM DTT, 5 mM EDTA.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Recommended Conditions for Cleavage of a Fusion Protein:</b>	A number of variables can be changed to optimize the cleavage of any specific protein. The amount of rTEV, the temperature of the incubation, and the time needed for cleavage may be examined. If the protein of interest is heat-labile, then 4°C incubations are recommended. Reactions at 4°C will require longer incubation times and/or more rTEV.
<b>Storage:</b>	Store rTEV at -70°C for long term or at -20°C for < 6 months.
<b>Usage:</b>	This material is offered by Bio Basic Inc. for research, laboratory or further evaluation purposes. <b>NOT FOR HUMAN USE.</b>