

TEV Protease Protein, TEV, Recombinant (His)

General Information

Synonyms: rTEV;P1 protease;TEV
Molecular Weight: 28.4 kDa (Reducing conditions)

QC Testing

Biological Activity: 10 IU/ μ l. Unit Definition: One unit of TEV protease cleaves
> 85% of 3 μ g of control substrate in 1 hour at pH 8.0 at 30°C.
Purity: > 95% as determined by SDS-PAGE
Formulation: Sterile liquid solution contains 50mM Tris, 5mM DTT, 50% glycerol, pH7.5.

Preparation and Storage

Stability & Storage:

Recombinant Tobacco Etch Virus Protease (rTEV) remains stable up to 1 year at -20°C from date of receipt. Please avoid freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Tobacco Etch Virus (TEV) protease is a highly site-specific cysteine protease commonly used to remove affinity tags from fusion proteins. It recognizes the sequence Glu-Asn-Leu-Tyr-Phe-Gln \downarrow Gly/Ser (ENLYFQ \downarrow G/S), with cleavage occurring between the Gln and Gly or Ser residue. The most frequently used recognition site is ENLYFQG.

The optimal cleavage temperature is 30°C, though conditions such as enzyme amount, incubation time, and temperature may require optimization for different substrates.

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