

Product Details

TEV Protease is a recombinant form of Tobacco Etch Virus protease expressed in Escherichia coli. This protease is used to cleave affinity tags from fusion proteins. The TEV Protease recognition sequence with the highest catalytic efficiency is ENLYFQS/G, the cleavage site is between Q and S/G. TEV protease contains N-terminus His-tag, it can be removed by Ni²⁺ affinity resin for purification of the target protein.

Application

Removal of affinity purification tags from fusion proteins.

Unit Definition

1 unit of TEV Protease will cleave 2 µg of MBP-fusion protein to 95% completion in a total reaction volume of 10 µl in 1 hour at 30°C in 50 mM Tris-HCl (pH 7.5 @ 25°C) with 0.5 mM EDTA and 1 mM DTT.

Purity

- >95% as determined by SDS-PAGE.
- >95% as determined by SEC-HPLC.

Enzyme Activity

>1 U/µL

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 250 mM NaCl, pH7.4 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

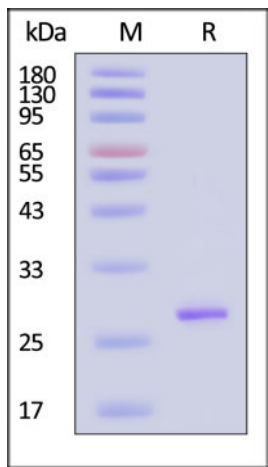
Storage

This product is stable after storage at:

- The product MUST be stored at -20°C or lower upon receipt;
- 20°C for 3 months under sterile conditions.

*The 10× Reaction Buffer provided in this kit contains DTT, a sulfhydryl reducing agent essential for maintaining enzyme activity. When employing the 10× Reaction Buffer exposed to prolonged storage or repeated freeze-thaw cycles, fresh 10 mM DTT should be supplemented to the Reaction Buffer to ensure maximal enzymatic activity, as oxidative degradation of DTT progressively compromises its reducing capacity.

SDS-PAGE

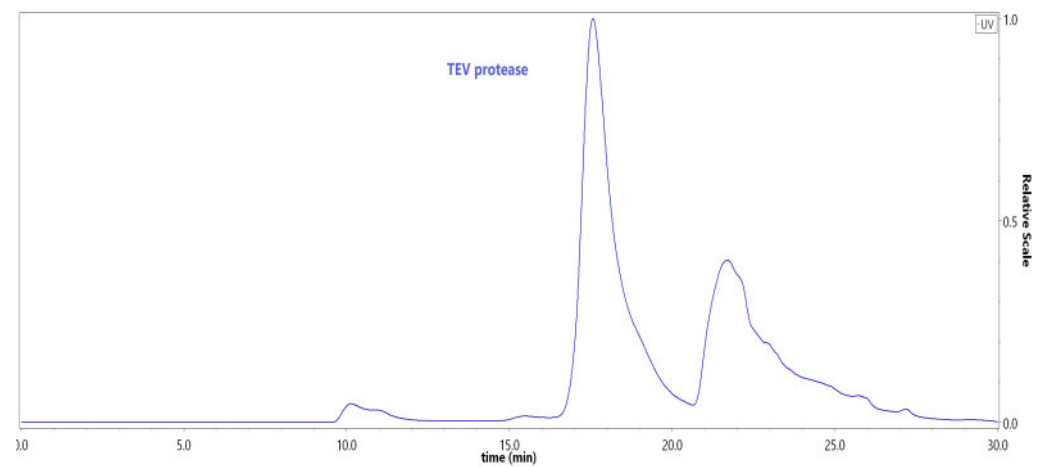


The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity

Two fold dilutions of TEV Protease are incubated with 2 µg MBP5-TEV-paramyosin ΔSal and 1X TEV Protease Reaction Buffer in a 10 µl reaction. The reaction mix is incubated at 30°C for 1 hour. Separation of reaction products are visualized by SDS-PAGE (QC tested).

SEC-HPLC



The purity of TEV Protease (Cat. No. TEE-V5143) was greater than 95% as determined by SEC-HPLC.

Discounts, Gifts,
and more!



TEV Protease (active enzyme, HPLC verified)

Catalog # TEE-V5143

