TEV Protease (active enzyme, HPLC verified)

Catalog # TEE-V5143

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.

>90% as determined by SEC-HPLC.

Enzyme Activity

>1 U/µL

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM Tris, 250 mM NaCl, 0.1% TritonX-100, pH7.4 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

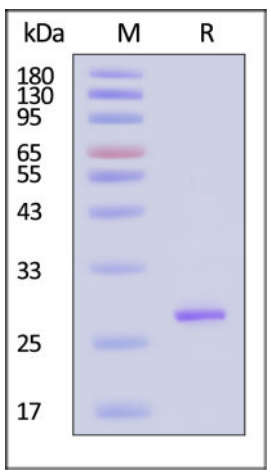
This product is supplied and shipped with blue ice, please inquire the shipping cost.

Storage

This product is stable after storage at:

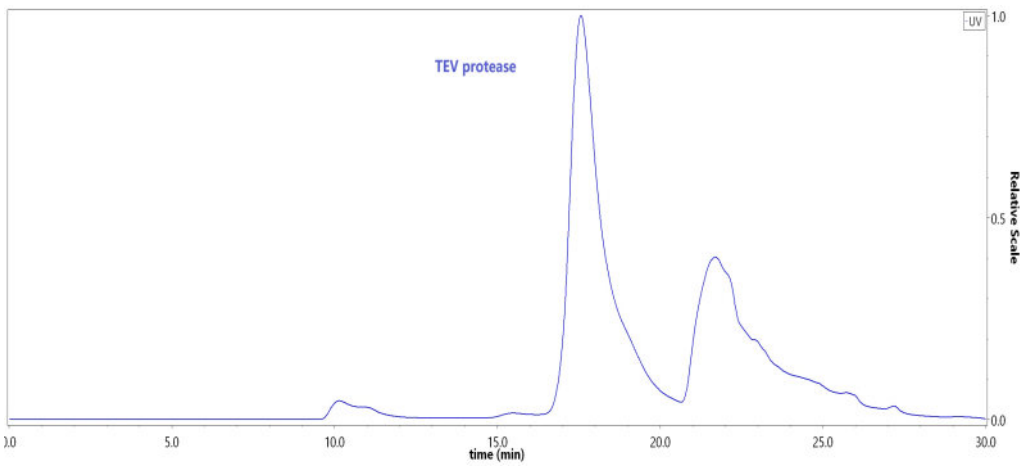
- The product MUST be stored at -20°C or lower upon receipt;
- -20°C for 3 months under sterile conditions.

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).

SEC-HPLC



The purity of TEV Protease (Cat. No. TEE-V5143) was greater than 90% as determined by SEC-HPLC.

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.

Clinical and Translational Updates