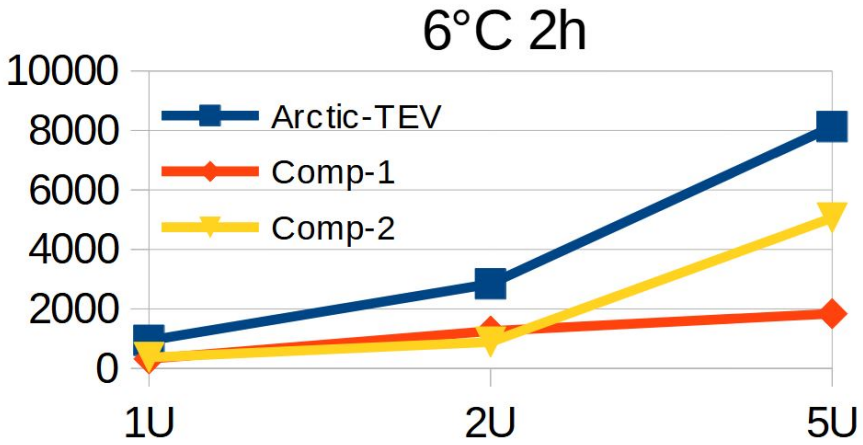
Arctic-TEV Protease His6

Datasheet, Version 2/2016

protean
Forefront of Biotechnology

Catalog #	2279
Synonyms	Endopeptidase, ProTEV
Type	Recombinant
Source	E. coli
Species	Tobacco etch virus
Tag	His6
Form	Liquid
Purity	>95% by SDS PAGE
Shipping	Ice pack



Introduction

TEV protease is genetically modified sequence-specific cysteine protease from Tobacco Etch Virus (TEV). It is a member of chymotrypsin-like proteases. Due to its high sequence specificity, it is frequently used for the cleavage of fusion proteins and removal of tags from recombinant proteins in vitro and in vivo.

Description

Genetically modified version of the TEV protease with increased activity at 6C. The activity of this enzyme at 6C is comparable with the activities of competitor's TEV proteases at 30C. It contains His6 tag located at the N-terminus of the protein, which allows it to be immobilized on Ni-based affinity resins and removed from the cleavage reaction. The preferred recognition sequence is the same ENLYFQ|S(G,A), but it cleaves also motives EXLYFQ|S(G,A), where X could be any amino acid residue (in parenthesis are alternative residues). Please use our TEV substrate #1409, FRET TEV protease substrate #2586 or TEV protease FRET activity assay kit #2808 as a positive control.

Application

Cleavage of affinity tags from fusion proteins after protein purification. Cleaves fusion proteins directly in solution or immobilized on affinity resins. The enzymes supplied by Protean Ltd. are manufactured locally in a certified environment under ISO 9001 and ISO 13485 international standards, which fully qualifies them for a use in downstream GMP certified processes. More details here.

Purification method

Affinity chromatography

Formulation

50mM Tris pH 7,5, 1 mM EDTA, 5 mM DTT, 40% glycerol

Specificity

Highly specific and active for its seven-amino acid sequence with minimal off-target effects. Activity more than 20KU per mg of protein. The activity depends on the type of target protein. The optimal amount of enzyme should be tested for each target protein.

Storage

-20C, do not store at -80C

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Analyte specific reagent (ASR) manufactured under ISO 13485.
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