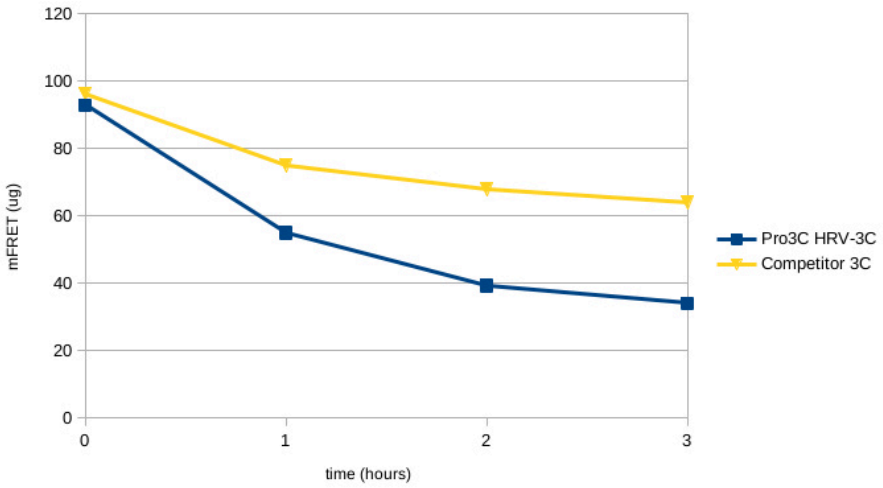
Pro3C HRV-3C Protease

Datasheet, Version 2/2016

protean
Forefront of Biotechnology

Catalog #	2189
Synonyms	Prescission, HRV-3C
Type	Recombinant
Source	E. coli
Species	Human Rhinovirus
Tag	His6
Form	Liquid
Purity	>95% by SDS PAGE
Shipping	Ice pack



Introduction

Pro3C (HRV-3C, Prescission) protease is a genetically modified sequence-specific cysteine protease from Human Rhinovirus 3C (HRV3C). 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

This recombinant protease is genetically improved version of the human rhinovirus 3C. 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. It is active over a wide range of temperatures (4-34C). The optimum is 30C, however, it is active at 4C as well for temperature sensitive targets. The preferred recognition sequence is Leu-Glu-Val-Leu-Phe-Gln|Gly-Pro (LEVLFQ|GP). Please use our 3C substrate #1409 or FRET substrate as a positive control. The kit for testing the specific activity is available here.

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 in certified environment under ISO 9001 and ISO 13485 international standards, which fully qualifies them for a use in downstream GMP certified processes.

Purification method

Affinity chromatography

Formulation

Colorless solution, 50 mM Tris pH 7.0, 150 mM NaCl, 1 mM EDTA, 1mM DTT, 40% glycerol

Specificity

Highly specific and active for its eight-amino acid sequence with minimal off-target effects. The activity depends on the type of target protein. The optimal amount of enzyme should be tested for each target protein. The activity of the enzyme is 0.8U/ul.

Storage

-20C, do not store at -80C

Protean s.r.o.
Pod Lesem 9
373 16 Dobra Voda u CB
The Czech Republic

ISO 9001 & ISO 13485
CERTIFIED

www.protean.bio
info@protean.bio
+420 380 120 427

Analyte specific reagent (ASR) manufactured under ISO 13485.
Country of origin: Czech Republic

Protean s.r.o.
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