

# Pro3C HRV-3C Protease FRET activity assay kit



Datasheet, Version 2/2016

**protean**  
Forefront of Biotechnology

Catalog #	3007
Synonyms	HRV-3C protease activity kit
Type	Recombinant, Fluorescent
Source	<i>E. coli</i>
Species	Human Rhinovirus
Tag	His6
Form	Liquid
Purity	>95% by SDS PAGE
Shipping	Ice pack

## Introduction

HRV-3C protease activity assay kit for quantitative determination and monitoring of HRV-3C protease specific activity based on fluorescent energy transfer (FRET). For quality control of HRV-3C protease activity.

## Description

The HRV-3C protease fluorescent activity assay uses protein substrate based on fluorescent energy transfer (FRET). The principle of FRET relies on energy transfer of excitation energy of a donor fluorophore to a nearby acceptor fluorophore. The 54 kDa FRET substrate protein is composed by two fluorescent proteins green 26 kDa and red 28 kDa linked with TEV protease recognition sequence LEVLFQ|GP. The substrate is specifically cleaved to fluorescent monomers, which results in quantitative decrease of fluorescent intensity at 580-650 nm (emission range, the excitation range is 490-515 nm). The HRV-3C protease fluorescent activity assay is suitable for precise protease activity measurements, monitoring or high-throughput screening of HRV-3C protease variants, substrate specificity measurements, etc. All components are manufactured in certified laboratory environment and could be used in GMP certified downstream processes. Recombinant proteins (HRV-3C protease and FRET HRV-3C protease substrate) are purified by affinity chromatography, size exclusion chromatography and desalting.

## Application

Activity assay for precise measurements of different lots and types of HRV-3C protease. For 10 reactions and 2 calibration curves.

## Purification method

Affinity chromatography, size exclusion chromatography, desalting.

## Formulation

FRET HRV-3C protease substrate (0,5 mg/ml; 1,5 ml); reference HRV-3C protease (10 kU/ml, 50 µl); Protease reaction buffer (1 ml); DTT (1M DTT; volume 100 µl)

## Specificity

HRV-3C protease recognition sequence.

## Storage

-20°C

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

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