

Pro3C HRV-3C

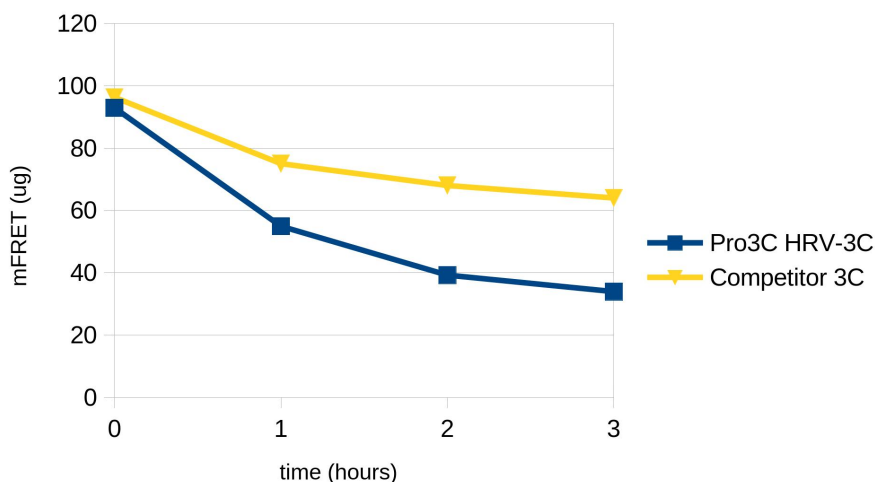


Protease FRET activity assay kit

protean
Forefront of Biotechnology

Datasheet, Version 2/2016

Catalog #	3007
Synonyms	HRV-3C protease activity kit
Type	Recombinant, Fluorescent
Source	E. coli
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 Pro3C 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 54kDa FRET substrate protein is composed by two fluorescent proteins, green 26kDa and red 28kDa proteins linked with HRV-3C protease recognition sequence LEVLFQ|GP. The substrate is specifically cleaved to fluorescent monomers, which results in quantitative decrease of fluorescent intensity at 580-650nm (emission range, the excitation range is 490-515nm). The Pro3C HRV-3C protease fluorescent activity assay is suitable for precise protease activity measurements, monitoring or high-throughput screening of 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 (3C-protease and FRET 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 (800 U/ml, 50 µl); Protease reaction buffer (1 ml); DTT (1M DTT; volume 100 µl)

Specificity

HRV-3C protease recognition sequence.

Storage

-20°C

Protean s.r.o.
Pod Lesem 9
373 16 Dobru 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.
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