

# HRV 3C Protease Inhibitor Screening Kit

## Product Information

### Cat.No.

Kit-2118

### Product Overview

HRV 3C Protease Inhibitor Screening Kit utilizes the ability of a 3C Protease (derived from a HRV rhinovirus-14, EC: 3.4.22.28) to cleave a chromogenic peptide substrate to release a chromophore (pNA) which can be easily quantified using a microplate reader. In the presence of a HRV 3C Protease-specific inhibitor, the cleavage of the substrate is reduced/abolished resulting in decrease or total loss of the absorbance. This simple and high-throughput adaptable assay kit can be used to screen/study/characterize potential inhibitors of HRV 3C Protease.

### Size

100 assays

### Description

Human rhinovirus (HRV) infections are the most frequent causative agents of common cold and various other upper respiratory tract infections. Rhinoviruses are members of the picornavirus family, which have a positive-sense, single-stranded RNA genome that is translated into a single polyprotein precursor. In the case of HRVs, the viral polyprotein is mainly processed by the proteases (2A and 3C) to generate functional proteins and enzymes.

### Applications

Screening/studying/characterizing inhibitors of HRV 3C Protease.

### Storage

Store kit at -20°C, protected from light. Briefly centrifuge small vials at low speed prior to opening. Read the entire protocol before performing the experiment. HRV 3C Protease Assay Buffer: Store at 4°C. Bring to room temperature before use. HRV 3C Protease: Aliquot and store at -80°C for long term. Avoid repeated freeze/thaw. Each vial contains enough enzyme solution for 50 assays.

### Kit Components

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## HRV 3C Protease Inhibitor Screening Kit

HRV 3C Protease Assay Buffer: 25 mlHRV 3C Protease: 2 x 100  $\mu$ lHRV 3C Protease Substrate: 500  $\mu$ lHRV 3C Protease Inhibitor (2 mM): 20  $\mu$ l

**Detection method** Absorbance (OD= 405 nm)

### Compatible Sample Types

Small molecules

### Features & Benefits

- Simple, rapid assay.
- HTP adaptable.