CREATIVE BIOMART®
Assay Kit

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

HRV 3C Protease Assay Buffer: 25 mlHRV 3C Protease: 2 x 100 µlHRV 3C Protease Substrate: 500

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HRV 3C Protease Inhibitor Screening Kit

μlHRV 3C Protease Inhibitor (2 mM): 20 μl

Detection method Absorbance (OD= 405 nm)

Compatible Sample Types

Small molecules

Features & Benefits

• Simple, rapid assay.• HTP adaptable.

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