

## UniHRV 3C Protease

Catalog Number	LDG0010RG
Package	500 U / Customized package

For full product information, images and publications, please visit [our website](#).



### Overview

#### Description

UniHRV 3C Protease is a recombinant form of the 3C protease derived from human rhinovirus 14 expressed in E. coli (specific activity 1800-2000 U/mg). This product is a highly purified recombinant 6XHis-fusion protein and requires neither metal nor cofactors for activity. UniHRV 3C Protease recognizes the cleavage site: Leu-Glu-Val-Leu-Phe-Gln↓Gly-Pro (LEVLFQ↓GP). UniHRV 3C Protease demonstrate excellent cleavage efficiency in a variety of fusion proteins.

#### Product Note

- Cleavage efficiency may differ based on structure and properties of each target protein, we recommend testing several enzyme-to-substrate ratios, temperatures and incubation times.
- HRV 3C Protease reactions can be performed in a buffer which is optimal for the target protein. Reducing reagents (e.g., DTT) or salts (e.g., NaCl) can be added for cleavage efficiency evaluation.

#### Components

Package	Items	Quantity
500 U	UniHRV 3C Protease	1 vial (500 U)
	10× HRV 3C Cleavage Buffer	1 vial (10 mL)

### Specifications

#### Expression system

Escherichia coli

#### Buffer

Lyophilized from a solution containing 50 mM Tris, 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.04% Tween20, 8% trehalose, 8% mannitol.

#### Tainan Headquarter

+886-6-2536677

bd@leadgene.com.tw

#### Innovation & Research Center

+886-2-27065528

#### CLD Center

+886-6-2536677

**Purity**

>98% as determined by SDS-PAGE analysis.

**Unit Definition**

One unit of HRV 3C Protease is defined as the amount of enzyme that will cleave >95% of 0.1 mg HRV 3C cleavage control protein in 150 mM NaCl, 50 mM Tris-HCl pH 7.5, at 4°C for 16 h.

**Endotoxin level**

<1 EU per 1 µg of the protein by the LAL method.

**Form**

Lyophilized

**Instruction****Reconstitution**

It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

**Shipping**

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

**Stability & Storage**

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

**Image****Tainan Headquarter**

+886-6-2536677

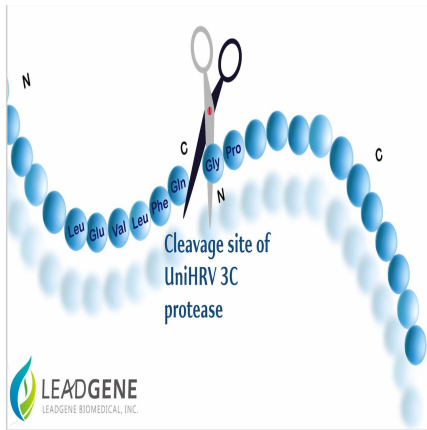
bd@leadgene.com.tw

**Innovation & Research Center**

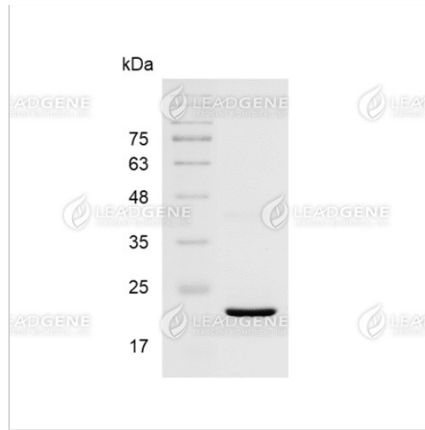
+886-2-27065528

**CLD Center**

+886-6-2536677



UniHRV 3C protease removes the purification tag appended to interest proteins after the affinity chromatography step.



SDS-PAGE analysis of recombinant UniHRV 3C Protease Protein

**Disclaimer :** For Research Use or Further Manufacturing Only.