

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 (LEVLFG ↓ 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

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Expression System

Escherichia coli

Purity

>98% as determined by SDS-PAGE analysis.

Endotoxin Level

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

Storage 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.

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.

Form

Lyophilized

Instruction**Reconstitution**

It is recommended to reconstitute the lyophilized protein in sterile H₂O and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

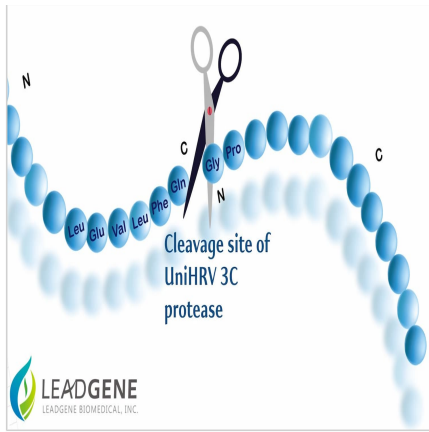
- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

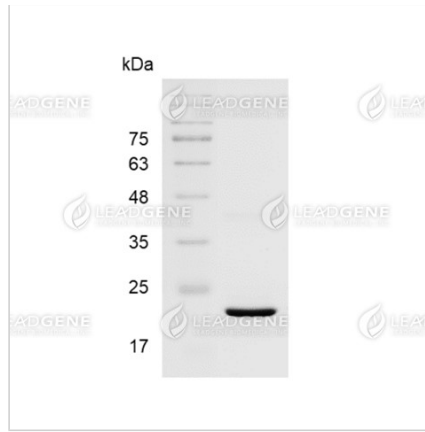
Shipping

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

Image



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

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