

Code; RP-3Cp-200  
Lot; xxxx  
Size; 2,000units



ProteinExpress

## Recombinant HRV 3C protease, GST/His-tagged

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**Concentration :** 1,000units/mL

**Storage :** Stored at -20°C. Avoid repeated freeze-thaw cycles.

**Description :** HRV 3C protease is a recombinant from human rhinovirus 3C. HRV 3C protease is a cysteine protease which recognizes the cleavage site.

**Storage Buffer :**

50 mM Tris-HCl (pH8.0)  
150 mM NaCl  
1 mM EDTA  
2 mM DTT  
20% Glycerol

**Source :** Recombinant protein with GST tag and 6-His tag, expressed in *E.coli*.

**Molecular Weight :** 40KDa.

**Purity :** > 90%, as determined by SDS-PAGE visualized by CBB stain.

**Unit Definition :** One unit is defined as the amount of enzyme required to remove >90% of the fusion protein 100µg in 16 hour at 4°C in a buffer containing 50mM Tris-HCl, pH7.0, 150mM NaCl, 1mM EDTA, and 1mM DTT.

**Cleavage site :** Leu-Glu-Val-Leu-Phe-Gln/Gly-Pro

**Cleavage condition:**

It is recommended to use 1 unit of HRV 3C protease to 100µg of target protein at 4°C overnight, with the target protein concentration at 1-2mg/ml. The efficiency of cleavage may vary with the sequences around the cleavage site and the conformation and the solubility of target protein. It is necessary to consider the optimum reaction conditions.

Example of the reaction buffer:

50mM Tris-HCl (pH7.0), 150mM NaCl, 1mM EDTA, 1mM DTT

**Removal of HRV 3C Protease after Cleavage:**

HRV 3C Protease contains both GST and His tags. After cleavage of the target protein, HRV 3C Protease can be removed along with the tags from the cleavage reaction by affinity columns on a Glutathione resin or Ni chelating resin.

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**ProteinExpress Co., Ltd.**

2-1-6, Kazusakamatari, Kisarazu-shi, Chiba 292-0818, Japan  
Tel: +81-438-52-0112, Fax: + 81-438-52-0113  
E-mail; service@proteinexpress.co.jp  
URL; <http://www.proteinexpress.co.jp>