

Recombinant human rhinovirus type 14 3C/ HRV 3C protease Protein

Catalog No.: RPT0028LQ **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human rhinovirus 14 (HRV-14)	1461213	P03303

Tags

N-6His-GST

Synonyms

Human rhinovirus 14 (HRV-14);Genome polyprotein;Protease 3C; Picornain 3C; P3C;HRV 3C;

Product Information

Source	Purification
<i>E. coli</i>	

Endotoxin

Formulation

Supplied as 0.22 µm filtered solution in 25mM Tris, 150mM NaCl, 1mM DTT, 0.5mM EDTA, 50% glycerol, pH8.0

Reconstitution

Background

HRV 3C Protease encoded by human rhinovirus 14 is a highly purified recombinant cysteine protease with a His-tag. HRV 3C protease folds into two anti-parallel six-stranded β-barrels and the site cleft is located at the junction of the two β-barrels domains. The enzyme requires neither metal nor cofactors for activity. It has been demonstrated that the enzyme exhibits highest activity around neutral pH at temperature ranging from 22 to 37°C, even retaining robust activity at 4°C. Thus, cleavage can be performed at low temperature to enhance the stability of the target protein. The catalytic activity is insensitive to organic solvents (up to 10%); however, it can be strongly stimulated by high concentration of anions such as sulfate.

Basic Information

Description

Recombinant human rhinovirus type 14 3C/ HRV 3C protease Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Gly1538-Gln1719) of human rhinovirus type 14 3C/ HRV 3C (Accession #NP_041009.1) fused with a His and GST tag at the N-terminus.

Bio-Activity

Storage

Store at ≤-70°C, stable for 12 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

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