Recombinant human rhinovirus 3C Protease, GST-tagged

Cat. No. COP20 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Virus
Source	E.coli
ProductOverview	Recombinant HRV 3C Protease contains a GSTtag, was expressed in E. coli, and purified in vitro usingconventional chromatography techniques.
Description	Protease Recombinant is fusion protein of GSTand human rhinovirus (HRV) type 14 3C protease. Substrate recognition andcleavage are likely to be dependent not only upon primary structural signals,but also upon the secondary and tertiary structures of the fusion protein asIt has been demonstrated that the enzyme exhibits highest activity aroundneutral pH at temperature ranging from 22 to 37℃, even retaining robust activity at 4℃. Thus, cleavage can be performed at lowtemperature to enhance the stability of the target protein. The catalyticactivity is insensitive to organic solvents (up to 10%); however, it can bestrongly stimulated by high concentration of anions such as sulfate.
Form	Solution in 50 mM Tris, 150 mM NaCl, 1 mMEDTA, 50% Glycerol, pH 8.0
Specification	2000U
UnitDefinition	One unit will cleave >95% of 100 gHis•Tag fusion control protein in 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 at 4°Cfor 16 h.

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Specificity	The enzyme recognizes the cleavage site:Leu-Glu-Val-Leu-Phe-Gln-⬇-Gly-Pro.	
Molecularweight	22KDa	
10×Cleavage Buffer	500mM Tris-HCl, pH-7.0 (at 25℃), 1.5 M NaCl, 10 mM EDTA, 10 mMdithiothreitol. Chill to 5℃ priorto use.	
Applications	The high specificity of HRV GST-3C protease makes it anideal tool for cleaving fusion proteins at definite cleavage sites. Thefusion protein can be purified and cleaved by HRV GST-3C to obtain the targetprotein.	
Storage	Storeat -20℃ upon received. Avoidrepeated freeze-thaw cycles.	
Background	Introduction	Rhinovirus is a species in the genus Enterovirus of the Picornaviridae family of viruses. Thereare 99 recognized types of Human rhinoviruses that differ according to theirsurface proteins. They are lytic in nature and are among the smallest viruses,with diameters of about only 30 nanometers. Other viruses such as smallpox and vaccinia are around 10 times larger at about 300 nanometers.
	Keywords	Turbo3C(HRV 3C) Protease; 3C; HRV-3C

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