

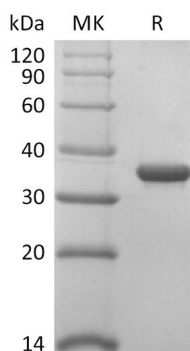
**Product Name: Recombinant SARS-CoV-2 Papain-Like Protease**  
**Catalog #: PEV2233**



## Summary

<b>Name</b>	Papain-Like Protease/NSP3
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	Please contact with the lab for this information
<b>Construction</b>	Recombinant 2019-nCoV Papain-like Protease is produced by our E.coli expression system and the target gene encoding Glu1564-Lys1878 is expressed.
<b>Accession #</b>	QHD43415.1
<b>Host</b>	E.coli
<b>Species</b>	SARS-CoV-2
<b>Predicted Molecular Mass</b>	35.8 KDa
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 10 mM 2-Mercaptoethanol, 20% Glycerol, pH 7.5.
<b>Shipping</b>	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	

## SDS-PAGE image



## Background

<b>Alternative Names</b>	Papain-like Protease; PLpro; PL-PRO; pp1a; Replicase polyprotein 1a
<b>Background</b>	Replication of severe acute respiratory syndrome (SARS) coronavirus (SARS-CoV)

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requires proteolytic processing of the replicase polyprotein by two viral cysteine proteases, a chymotrypsin-like protease (3CLpro) and a papain-like protease (PLpro). These proteases are important targets for development of antiviral drugs that would inhibit viral replication and reduce mortality associated with outbreaks of SARS-CoV. PLpro is a cysteine protease located within the non-structural protein 3 (NS3) section of the viral polypeptide. PLPro activity is required to process the viral polyprotein into functional, mature subunits; specifically, PLPro cleaves a site at the amino-terminus of the viral replicase region. In addition to its role in viral protein maturation, PLPro possesses a deubiquitinating and deISGylating activity. In vivo, this protease antagonizes innate immunity by inhibiting IRF3-induced production of type I interferons.

### **Note**

For Research Use Only , Not for Diagnostic Use.