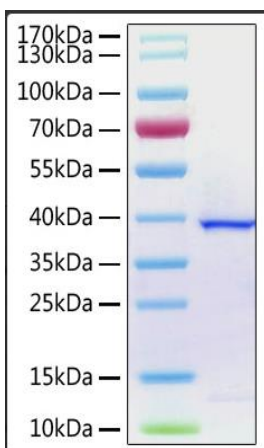


# Recombinant SARS-CoV-2 Papain-like Protease

<b>CATALOG NO:</b>	P1551-10 10 µg P1551-50 50 µg
<b>ALTERNATE NAMES:</b>	PLPro, PL-PRO, pp1a, Papain-like Protease, Replicase polyprotein 1a, ORF1a polyprotein, Plpro
<b>MOL. WT.</b>	38 kDa (6xHis tag at the N-terminus)
<b>SOURCE:</b>	E. coli
<b>PURITY:</b>	>95% SDS - PAGE
<b>ENDOTOXIN:</b>	< 1.0 EU/µg of the protein by LAL method.
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	Supplied as a 0.22 µm filtered solution in 20 mM Tris, 20% Glycerol, 10 mM β-Me pH 7.5
<b>STORAGE CONDITIONS:</b>	For optimal storage, aliquot into smaller quantities after centrifugation and store at the ≤ -70°C. Avoid repeated freeze-thaw cycles.
<b>DESCRIPTION:</b>	SARS-CoV is an enveloped, single and positive-stranded RNA virus. Replication of the genomic RNA of SARS-CoV is mediated by replicase polyproteins that are processed by two viral proteases, papain-like protease (PLpro) and 3C-like protease (3CLpro). The chymotrypsin-like 3CLpro processes the replicase polyprotein at 11 sites, including cleaving itself from the polyprotein to generate a 25-kDa protease product. Papain-like proteases have been shown to process the amino-terminal end of the replicase polyprotein to generate two or three replicase products. Proteolytic processing of the coronavirus replicase polyprotein is essential for generating a functional replication complex. Therefore, the coronavirus replicase-encoded proteases, 3CLpro and PLpro, are potential targets for antiviral drug development.
<b>AMINO ACID SEQUENCE:</b>	aa Glu1564-Lys1878



Purity of recombinant papain-like protease with was determined by SDS-PAGE with Coomassie Blue, showing a band at 38 kDa.

## RELATED PRODUCTS:

- Recombinant Coronavirus Nucleoprotein (SARS-CoV-2) (P1523)
- Recombinant Bovine Coronavirus Hemagglutinin-esterase (HE) (P1527)
- Human CellExp™ Angiotensin-Converting Enzyme 2 (ACE2), Human Recombinant (P1535)
- Recombinant SARS-CoV-2 3C-like Proteinase (P1550)

**FOR RESEARCH USE ONLY! Not to be used on humans.**