

## Recombinant SARS-CoV-2 Papain-like Protease

**CATALOG NO:** P1551-10 10 μg P1551-50 50 μg

ALTERNATE NAMES: PLPro, PL-PRO, pp1a, Papain-like Protease, Replicase polyprotein 1a, ORF1a polyprotein, Plpro

MOL. WT. 38 kDa (6×His tag at the N-terminus)

SOURCE: E. coli

PURITY: >95% SDS - PAGE

**ENDOTOXIN:** < 1.0 EU/μg of the protein by LAL method.

FORM: Liquid

FORMULATION: Supplied as a 0.22 μm filtered solution in 20 mM Tris, 20% Glycerol,10 mM β-Me pH 7.5

STORAGE CONDITIONS: For optimal storage, aliquot into smaller quantities after centrifugation and store at the ≤ -70°C. Avoid

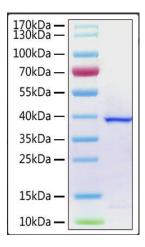
repeated freeze-thaw cycles.

DESCRIPTION: 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.

AMINO ACID SEQUENCE: 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.

