Active Recombinant SARS-CoV-2 papain-like protease Protein, His-tagged

Cat. No. PLpro-167S **Lot. No.** (See product label)

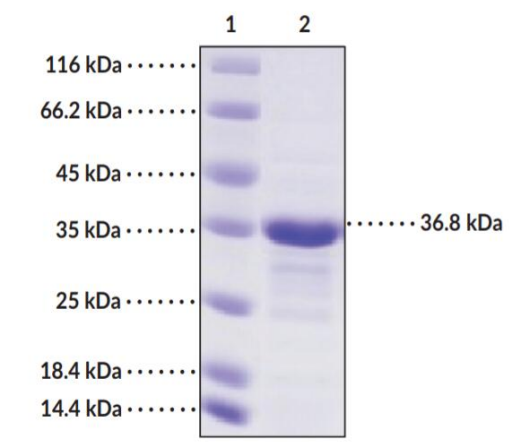
SPECIFICATION

Product Overview	Active recombinant SARS-CoV-2 N-terminal His-tagged papain-like protease was expressed in E. coli.
Species	SARS-CoV-2
Source	E.coli
ProteinLength	1564-1880
Description	Replication of severe acute respiratory syndrome (SARS) coronavirus (SARS-CoV) 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.
Form	Lyophilized

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Bio-activity	>80 pmols/min/μg
Molecular Mass	36.8 kDa
Purity	≥90% estimated by SDS-PAGE
Stability	≥ 6 months
Storage	At -80 centigrade.
Storage Buffer	Lyophilized from sterile 20 mM Tris, pH 7.4, with 500 mM sodium chloride

GENE INFORMATION

Synonyms	2019-nCoV PLpro; COVID-19-PLpro; SARS-CoV-2 PLpro; Severe Acute Respiratory Syndrome Coronavirus 2 Papain-like Protease
SDS-PAGE Analysis of SARS-CoV-2 Papain-like Protease	 Lane 1: MW Markers Lane 2: SARS-CoV-2 Papain-like Protease

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