

COVID 19 PLpro Coronavirus Active Protein | COVID-19 active protein

2019-nCoV PLpro, Active

CATALOG #
AAA73170

HOST
E Coli

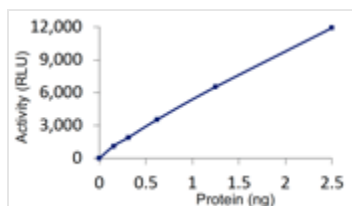
PRODUCT SYNONYMS

COVID 19 PLpro Coronavirus; 2019-nCoV PLpro; Active; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; PLpro; COVID-19 active protein

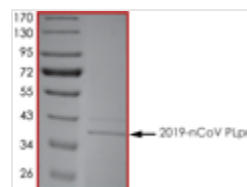
PRODUCT SPECIFICATIONS

Host	E Coli
Form/Format	50mM sodium phosphate, pH7.5, 300mM NaCl, 150mM imidazole, 1mM DTT, 10% glycerol
Species	SARS-CoV-2
Tag	HIS
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Specific Activity
Sample Activity Plot.



Application Data

PLpro inhibition profile in the presence of various concentrations of PR-619, a broad spectrum and reversible DUB inhibitor.

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein	Recombinant 2019-nCoV PLpro/papain-like protease, part of a large replicase polyprotein 1ab (E1564-Y1882), was expressed in E Coli cells with an N-terminal His tag. Overview: 2019-nCoV papain-like protease (PLpro), also known as SARS-CoV-2 PLpro, is a virally encoded cysteine protease that acts on three cleavage sites of the viral polyprotein to release mature non-structural proteins (nsp) 1, 2 and 3, a process that is essential for viral replication. In addition, PLpro possesses deubiquitinating and deISGylating activities, thus negatively regulating the ubiquitin and ISG15-dependent host immune response during viral infection. PLpro also participates together with nsp4 in the assembly of virally-induced cytoplasmic double-membrane vesicles necessary for viral replication.
Product Categories/Family for COVID-19 active protein	Proteins ; COVID-19 Proteins
References	- Wu F. et al: A new Corona virus associated with human respiratory disease in China. Nature 579: 265-269, 2020 - Báez-Santos Y. M. et al: The SARS-Corona virus papain-like protease: structure, function and inhibition by designed antiviral compounds. Antiviral Res. 115: 21-38, 2015 - Lindner H. A. et al: The papain-like protease from the severe acute respiratory syndrome Corona virus is a deubiquitinating enzyme. J Virol. 79:15199-15208, 2005

NCBI AND UNIPROT INFORMATION

Molecular Weight	38kDa
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-covid-19-active-protein/covid-19-plpro-coronavirus/73170>