

COVID 19 3CLpro/3C-like protease-His Coronavirus Active Protein | COVID-19 active protein

SARS-CoV-2 (2019-nCoV) 3CLpro/3C-like protease-His Recombinant Protein

CATALOG #
AAA258110

HOST
Baculovirus-Insect Cells

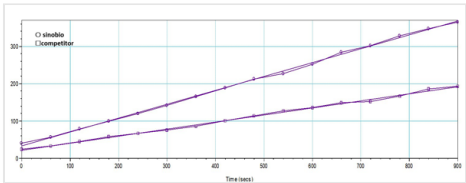
PRODUCT SYNONYMS

COVID 19 3CLpro/3C-like protease-His Coronavirus; SARS-CoV-2 (2019-nCoV) 3CLpro/3C-like protease-His Recombinant Protein; 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; 3CLpro/3C-like protease-His; COVID-19 active protein

PRODUCT SPECIFICATIONS

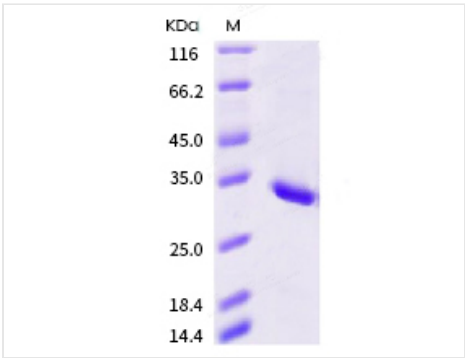
Host	Baculovirus-Insect Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, pH8.0, 300mM NaCl, 10% glycerol. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Ser3264-Gln3569
Species	SARS-CoV-2
Activity	Measured by its ability to cleave a peptide substrate, Dabcyl-KTSAVLQSGFRKME-Edans. The specific activity is >5 pmols/min/ug;
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Predicted N Terminal	Met
Tag	N-His
Protein Construction	A DNA sequence encoding the SARS-CoV-2 (2019-nCoV) 3CL Protease (YP_009725295.1)(Ser3264-Gln3569) was expressed with a N-terminal polyhistidine tagged.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



Application Data

Measured by its ability to cleave a peptide substrate, Dabcyl-KTSAVLQSGFRKME-Edans. The specific activity is >5 pmols/min/ug.



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for COVID-19 active protein	Background: 3C-like protease (3CLpro) is the main protease of Humann Coronavirus. 3C-like protease (3CLpro) is a key enzyme, as it cleaves several sites to produce non-structural proteins that are essential for genome replication and Coronavirus virion production, such as an RNA-dependent RNA polymerase, a helicase, ribonucleases and 3CLpro itself, from two types of polyproteins (pp1a and pp1ab). SARS-CoV 3CLpro exists as a homodimer and each protomer has an active site.
References	Tomonari Muramatsu,et al.Autoprocessing mechanism of severe acute respiratory syndrome coronavirus 3C-like protease (SARS-CoV 3CLpro) from its polyproteins.FEBS Journal.2013 Ziebuhr J,Molecular biology of severe acute respiratory syndrome coronavirus. Curr Opin Microbiol.2004 Yang H, et al. The crystal structures of severe acute respiratory syndrome virus main protease and its complex with an inhibitor. Proc Natl Acad Sci USA.2003

NCBI AND UNIPROT INFORMATION

Molecular Weight	The recombinant SARS-CoV-2 (2019-nCoV) 3CL Protease consists of 332 amino acids and predicts a molecular mass of 37.12kDa.
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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/baculovirus-insect-cells-covid-19-active-protein/covid-19-3clpro-3c-like-protease-his-coronavirus/258110>