

# SARS-CoV-2 3CLpro/3C-like Protease Protein

Cat. No. COV-VE0CL

## Description

<b>Source</b>	Recombinant SARS-CoV-2 3CLpro/3C-like Protease Protein is expressed from E.coli without tag. It contains Ser1-Gln306.
<b>Accession</b>	YP_009725301.1
<b>Molecular Weight</b>	The protein has a predicted MW of 33.8 kDa same as Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

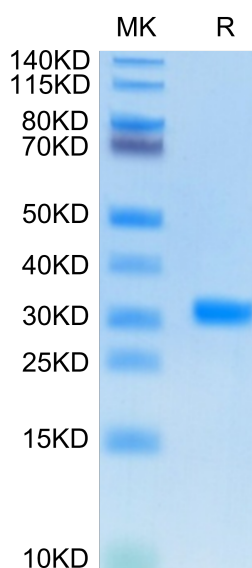
<b>Formulation</b>	Supplied as 0.22µm filtered solution in 25mM HEPES, 2.5mM DTT, 10% Glycerol (pH 7.5).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

3CL protease, a viral cysteine proteinase, plays an important role in co-translational proteolytic processing of Coronavirus polyproteins. The 3CL protease cleaves as much as 11 sites in the replicase polyproteins and also releases the key replicative functions of polymerase and helicase.

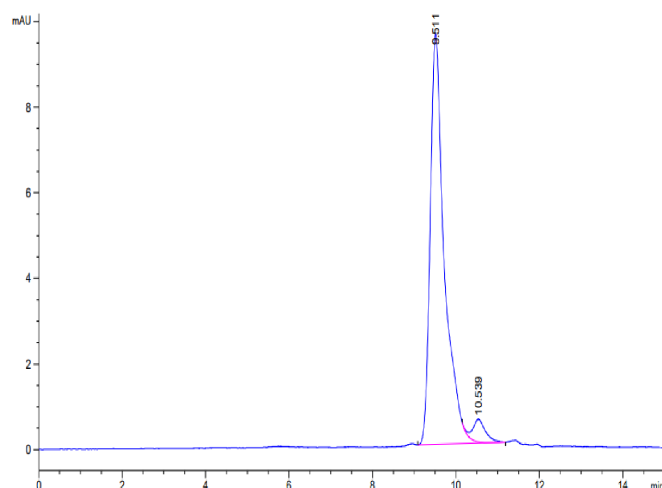
## Assay Data

### Bis-Tris PAGE



SARS-CoV-2 3CLpro on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



The purity of SARS-CoV-2 3CLpro is greater than 95% as determined by SEC-HPLC.

## Bioactivity Data

## SARS-CoV-2 3CLpro/3C-like Protease Protein

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### Assay Data

Measured by its ability to cleave a peptide substrate, MCA-AVLQSGFR-Lys(Dnp)-Lys-NH<sub>2</sub>. The specific activity is > 5 pmol/min/μg.