

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

Cat. No. COV-VE0CL



## Description

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

## Formulation and Storage

Formulation	Supplied as 0.22µm filtered solution in 25mM HEPES, 2.5mM DTT, 10% Glycerol (pH 7.5).
Storage	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%.

### Bioactivity 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.