

Overview

Description	Recombinant SARS-CoV-2 3CLp is produced by E.coli expression system and the target gene encoding Ser1-Thr304 is expressed with a 6His tag at the N-terminus.
Expression system	E.coli
Species	Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2)
Alternative names	3C-like proteinase,3CL-PRO,3CLp,nsP5
Accession #	YP_009725301.1

Specifications

Predicted Molecular Mass	35.55kDa
Actual Molecular Mass	35.55kDa, reducing conditions
Purity	>90% as determined by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.
Endotoxin level	Please contact with the lab for this information
Bioactivity	Testing in progress
Formulation	Supplied as lyophilized from PBS, pH7.5

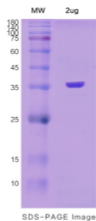
Preparation and storage

Shipping	In general, proteins are shipped out with blue ice unless customers require otherwise.
Stability &Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 °C for one week . Store at -20 to -80 °C for twelve months from the date of receipt.
Reconstitution	Reconstitute in ddH ₂ O to a concentration of 0.1-1.0 mg/mL. Do not vortex.

Background

The viral main proteinase (M^{pro}, also called 3CL^{pro}), which controls the activities of the coronavirus replication complex. It functions as a cysteine protease engaging in the proteolytic cleavage of the viral precursor polyprotein to a series of functional proteins required for coronavirus replication and is considered as an appealing target for designing anti-SARS agents.

SDS-PAGE image



Note

For research use only. Not for use in clinical diagnostic procedures.