

3CLpro/3C-like Protease Protein, SARS-CoV-2, Recombinant

General Information

Synonyms:	M Proteinase;3C-like Proteinase;3CL Proteinase
Protein Construction:	Ser3264-Gln3569
Species:	SARS-CoV-2
Expression Host:	E. coli
Accession:	P0DTC1
Molecular Weight:	30 kDa (reducing condition)
AA Sequence:	Ser3264-Gln3569

QC Testing

Biological Activity:	Measured by its ability to cleave a fluorogenic peptide substrate, Dabcyl-KTSAVLQSGFRKME-Edans (Synthetic). The specific activity is 136.6pmol/min/μg. (Regularly tested)
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 50 mM Tris-HCl, 1 mM EDTA, pH7.3.

Preparation and Storage

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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