Data Sheet (Cat.No.TMPK-01345)

3CLpro/3C-like Protease Protein (L50F, E166A, L167F), SARS-COV-2, Recombinant

General Information

Synonyms: 3CL-Mpro;Mpro;M Proteinase;3CL Protease

Protein Construction: Ser1-Gln306 (L50F, E166A, L167F)

Species: SARS-CoV-2

Expression Host: E. coli

Accession: YP_009725301.1

Molecular Weight: 34.5 kDa (predicted) same as Tris-Bis PAGE result.

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC

Endotoxin: < 1 EU/μg by the LAL method.

Formulation: Supplied as 0.22 μm filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

Shipping with blue ice.

Protein 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.

Reference

Pillaiyar T, et al. An Overview of Severe Acute Respiratory Syndrome-Coronavirus (SARS-CoV) 3CL Protease Inhibitors: Peptidomimetics and Small Molecule Chemotherapy. J Med Chem. 2016 Jul 28;59(14):6595-628. doi: 10.1021/acs.jmedchem.5b0146Epub 2016 Feb 29. PMID: 26878082; PMCID: PMC7075659.

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