

SARS-CoV (strain WH20) Plpro / papain-like protease (His Tag)

Catalog Number: 40524-V08E



Sino Biological
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General Information

Gene Name Synonym:

PLpro

Protein Construction:

A DNA sequence encoding the SARS-CoV (strain WH20) papain-like protease (PLpro) (AAX16193.1) (Glu1541-Tyr1859) was expressed with a polyhistidine tag at the C-terminus.

Source: SARS

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin:

Please contact us for more information.

Predicted N terminal: Glu 1541

Molecular Mass:

The recombinant SARS-CoV (strain WH20) papain-like protease (PLpro) consists of 325 amino acids and predicts a molecular mass of 36.65 kDa.

Formulation:

Lyophilized from sterile 50 mM Tris, 0.1 % Tween, pH 9.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

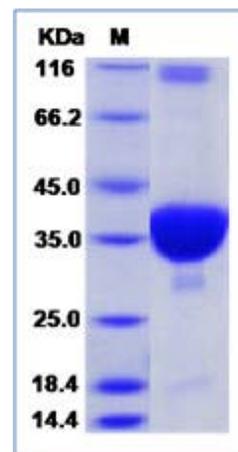
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

The methanol extract of *T. terrestris* fruits showed potent inhibition against the papain-like protease (PLpro), an essential proteolytic enzyme for protection to pathogenic virus and bacteria. *Tribulus terrestris* fruits are well known for their usage in pharmaceutical preparations and food supplements. The most active PLpro inhibitors (1-6) were proven to be present in the native fruits in high quantities by HPLC chromatogram and liquid chromatography with diode array detection and electrospray ionization mass spectrometry (LC-DAD-ESI/MS).