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

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).