

SARS PLpro/papain-like protease Protein (His)

General Information

Synonyms:	Papain-like Protease;PL-PRO;Replicase polyprotein 1a;pp1a;PL2-PRO;nsp1;Plpro
Protein Construction:	Glu1541-Tyr1859
Species:	SARS
Expression Host:	E. coli
Accession:	AAX16193.1
Molecular Weight:	36.91 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
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in 50 mM Tris, 0.1% Tween, 150 mM NaCl (pH 9.0).

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.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The coronaviral proteases, papain-like protease (PLpro) and 3C-like protease (3CLpro), are attractive antiviral drug targets because they are essential for coronaviral replication. Although the primary function of PLpro and 3CLpro are to process the viral polyprotein in a coordinated manner, PLpro has the additional function of stripping ubiquitin and ISG15 from host-cell proteins to aid coronaviruses in their evasion of the host innate immune responses.

Reference

Báez-Santos YM, et al. The SARS-coronavirus papain-like protease: structure, function and inhibition by designed antiviral compounds. *Antiviral Res.* 2015 Mar;115:21-38. doi: 10.1016/j.antiviral.2014.12.015. Epub 2014 Dec 29. PMID: 25554382; PMCID: PMC5896749.

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