

His₆-SARS-CoV (PLpro)

Cat. No. SBB-DE0024
Lot. No. 163060024

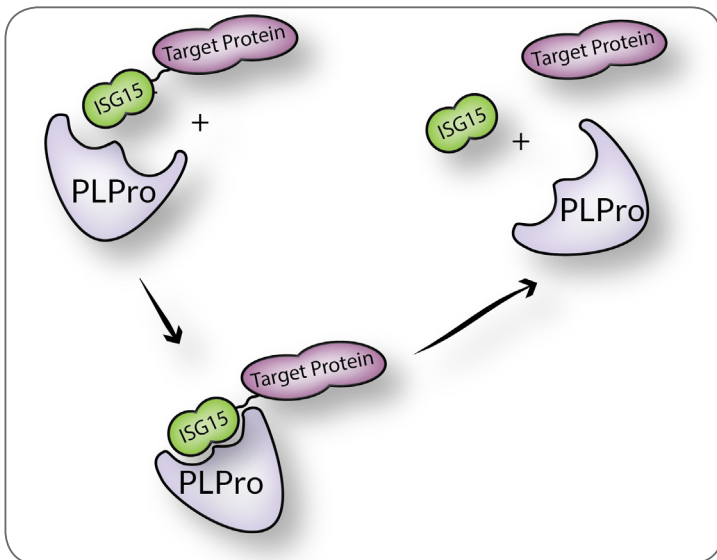


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SARS-CoV (PLpro)

The severe acute respiratory syndrome coronavirus papain-like protease (SARS-CoV PLpro) is involved in the processing of the viral polyprotein. Proteolytic processing of the coronavirus replicase poly-protein is essential for generating a functional virus replication complex. PLpro possesses both deubiquitinating or deISGylating activity and can process Lys-48 and Lys-63 linked polyubiquitin chains (free chains or from cellular substrates). It works in concert together with nsp4 in the assembly of virally-induced cytoplasmic double-membrane vesicles necessary for viral replication. It strongly antagonizes the innate immune induction of type I interferon by blocking the phosphorylation, dimerization and therefore the nuclear translocation of host IRF3. In addition, it prevents also host NF-kappa-B signaling.

PLpro is able to hydrolyze both ISG15-Rhodamine110 or diubiquitin/tetra-ubiquitin substrates, but is very inefficient when processing mono-Ub conjugates or synthetic peptide substrates. This SARS Coronavirus recombinant PLpro is N-terminally His₆-tagged and expressed in *E.coli*.



Product Information

Quantity: 50µg **Molecular Weight:** 37.3 kDa

Concentration: 25 µM, 0.93 mg/mL

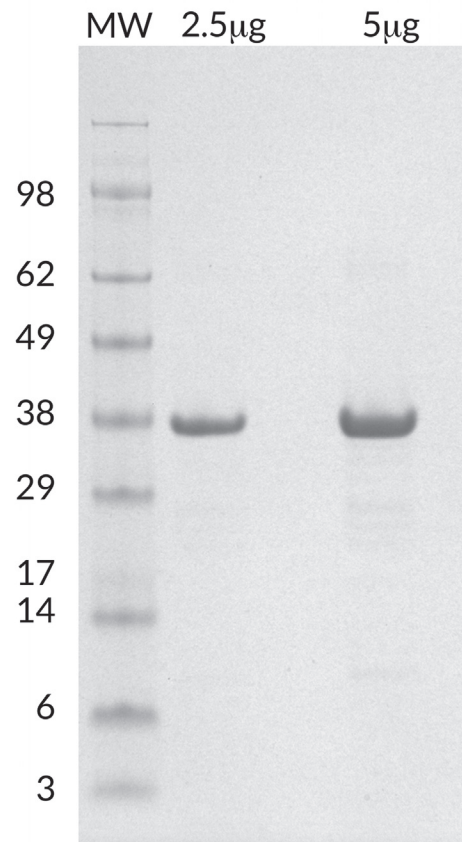
Purity: >95% by SDS-PAGE

Storage Buffer: 50 mM HEPES pH 7.5, 100 mM NaCl, 1 mM TCEP

Storage: -80C, Avoid multiple freeze / thaw

Usage: Working concentrations of this enzyme range from 1 to 10 nM.

Quality Control and Performance Data



His₆-PLpro SDS-PAGE. From left to right, increasing amounts of His₆-PLpro loaded onto a 4-20% SDS-PAGE gel, stained with coomassie brilliant blue. Purity is > 95%.

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References

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