

## SARS-CoV-2 Plpro/Papain-like protease Protein (His)

Cat. No.:	HY-P76021
Synonyms:	SARS-CoV-2 (2019-nCoV) Plpro/papain-like protease-His Protein
Species:	Virus
Source:	E. coli
Accession:	YP_009725299 (E1564-V1880)
Gene ID:	43740578
Molecular Weight:	Approximately 36.79 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris 500 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	<p>SARS-CoV-2 NSP3 (NSP3) is one of non-structure protein that binds to viral RNA, nucleocapsid protein, as well as other viral proteins, and contributes in polyprotein processing. NSP3 has also an important role in innate immune response antagonism and is responsible for release of NSP1, NSP2, and NSP3 from the N-terminal region of pp1a and pp1ab. NSP3 plays an important role in stimulating the translation of viral mRNAs which are capped but not polyadenylated, instead terminating in a conserved sequence 'GACC' at the 3' that is recognized by NSP3, which competes with host PABPC1 for EIF4G1 binding. The interaction between NSP3 and host EIF4G1 stabilizes the EIF4E-EIF4G1 interaction, thereby facilitating the initiation of capped mRNA translation<sup>[1][2]</sup>.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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