

Product datasheet for **TP727640**

2019-nCoV Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant 2019-nCoV Papain-Like Protease
Species:	2019-nCoV
Expression cDNA Clone or AA Sequence:	Glu1564-Lys1878
Buffer:	Supplied as a 0.2 um filtered solution of 20mM Tris-Hcl, 10 mM 2-Mercaptoethanol, 20%glycerol, pH 7.5.
Note:	Recombinant 2019-nCoV Papain-like Protease is produced by our E.coli expression system and the target gene encoding Glu1564-Lys1878 is expressed.
Stability:	12 months from date of despatch
Summary:	Replication of severe acute respiratory syndrome (SARS) coronavirus (SARS-CoV) requires proteolytic processing of the replicase polyprotein by two viral cysteine proteases, a chymotrypsin-like protease (3CLpro) and a papain-like protease (PLpro). These proteases are important targets for development of antiviral drugs that would inhibit viral replication and reduce mortality associated with outbreaks of SARS-CoV. PLpro is a cysteine protease located within the non-structural protein 3 (NSP3) section of the viral polypeptide. PLPro activity is required to process the viral polyprotein into functional, mature subunits; specifically, PLPro cleaves a site at the amino-terminus of the viral replicase region. In addition to its role in viral protein maturation, PLPro possesses a deubiquitinating and deISGylating activity. In vivo, this protease antagonizes innate immunity by inhibiting IRF3-induced production of type I interferons.



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