

DATA SHEET

Protein Name	Protein ID: SARS-CoV2 3CL Protease Catalog# 101
3CL Protease/ Mprotease	Fusion tag(s): Poly-Histidine tag at N-Terminus
Accession# 6LU7_A	
Source: Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2).	Description: The viral 3-chymotrypsin-like cysteine protease (3CL ^{pro} also known as Main Protease/ Mpro) controls coronavirus replication and is essential for its life cycle. This enzyme acts at no less than 11 cleavage sites on the large polyprotein 1ab (about 790 kDa) to generate various non-structural proteins that are important
A synthetic construct encoding the SARS-CoV-2 3CL Protease (Serine 1-Glutamine 306) was expressed with an N-terminal poly-histidine	for viral replication [1]. Since this protein plays a critical role for the assembly and propagation of the virus, it is a promising target to develop therapeutic agents that can block its catalytic activity [2].
tag.	[1] K. Anand, J. Ziebuhr, P. Wadhwani, et al. Coronavirus main proteinase (3CLpro) structure: basis for design of anti-SARS drugs
Expression Host: E. coli	Science, 300 (2003), pp. 1763-1767.
Molecular Weight: 34.7 kDa	[2] Prediction of the SARS-CoV-2 (2019-nCoV) 3C-like
Purity: 95%	protease (3CLpro) structure: virtual screening reveals velpatasvir, ledipasvir, and other drug repurposing candidates (2020). Crossrefe DOI link:
Supplied in buffer : 50 mM Tris- HCl [pH 8.0] + 10% Glycerol + 250 mM NaCl and 5 mM β- Mercaptoehtanol.	https://doi.org/10.12688/F1000RESEARCH.22457.2

Coomassie-blue stained SDS-PAGE under reducing conditions.

