

Recombinant SARS-CoV-2 3CL Protease

Catalog No: #AP60512



Package Size: #AP60512-1 50ug #AP60512-2 100ug

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Description

Product Name	Recombinant SARS-CoV-2 3CL Protease
Host Species	Escherichia coli
Purification	> 97 % by SDS-PAGE.
Calculated MW	Approximately 33.8 kDa, a single non-glycosylated polypeptide chain containing 306 amino acids.
Target Sequence	SGFRKMAFPS GKVEGCMVQV TCGTTTTLNL WLDDVVCPR HVICTSEDML NPNYEDLLIR KSNHNFLVQA GNVQLRVIGH SMQNCVLKLLK VDTANPKTPK YKFVRIQPGQ TFSVLACYNG SPSGVYQCAM RPNFTIKGSF LNGSCGSVGF NIDYDCVSFC YMHHMELPTG VHAGTDLEGN FYGPFVDRQT AQAAGTDTTI TVNVLAWLYA AVINGDRWFL NRFTTTLNDF NLVAMKYNYE PLTQDHVDIL GPLSAQTGIA VLDMCASLKE LLQNGMNGRT ILGSALLEDE FTPFDVVRQC SGVTFQ
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.0, with 5 % Trehalose, 0.02 % Tween-20.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. -□ A minimum of 12 months from date of receipt, when stored at ≤-20 °C as supplied. -□ 1 month, 2 to 8 °C under sterile conditions after reconstitution. -□ 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Background

The 3CL protease (aka 3CLpro, Mpro or "Main" Protease) from the human SARS-CoV-2 coronavirus (Severe Acute Respiratory Syndrome coronavirus 2) is a C30-type cysteine protease. 3CLpro activity is required to process the viral polyprotein into functional, mature subunits, and there are 11 or more sites of cleavage, many containing the sequence LQ[S/A/G]; the protease cleaves c-terminal to the glutamine amino acid. Along with the CoV-2 Papain-Like Protease, 3CLpro presents an attractive target for therapeutic intervention for COVID-19. Because no human proteases with a similar cleavage specificity are known, inhibitors of 3CLpro are unlikely to cause mechanism-based toxicity.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.