

COVID 19 Helicase Protein Coronavirus Recombinant Protein | COVID-19 recombinant protein

Recombinant 2019-nCoV Helicase Protein (His Tag)

CATALOG # AAA22154	HOST E Coli	REACTIVITY Virus
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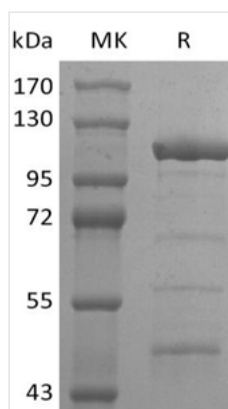
PRODUCT SYNONYMS

COVID 19 Helicase Protein Coronavirus; Recombinant 2019-nCoV Helicase Protein (His Tag); 2019 Novel Coronavirus; Coronavirus; CoV; COVID-19 virus; HCoV-2; Human Coronavirus 2019; SARS2; SARS-CoV-2; Severe acute respiratory syndrome coronavirus 2; COVID-19 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Virus
Purity/Purification	> 80 % as determined by reducing SDS-PAGE.
Form/Format	Supplied as a 0.2 uM filtered solution of PBS, pH 7.4.
Concentration	0.82mg/mL (varies by lot)
Sequence Positions	Ala5325-Gln5925
Sequence Length	601
Species	Virus
Endotoxin	< 1.0 EU per ug as determined by the LAL method.
Fusion Tag	C-6His & MBP
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Ships on dry ice. Store at <-20°C, Please minimize freeze-thaw cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for COVID-19 recombinant protein	Protein Construction: Recombinant 2019-nCoV Helicase is produced by our E.coli expression system and the target gene encoding Ala1-Gln601 is expressed with a 6His tag at the C-terminus. Background: The non-structural protein 13 (nsp13) of SARS-CoV 2 is a helicase that separates double-stranded RNA or DNA with a 5'—3' polarity, using the energy of nucleotide hydrolysis. A basic biochemical characterization of nsp13 demonstrated that it can unwind both doublestranded DNA and RNA in a 5'-3' direction, and it can hydrolyze all deoxyribonucleotide and ribonucleotide triphosphates. Helicases are motor proteins that utilize the energy derived from nucleotide hydrolysis to unwind double-stranded nucleic acids into two single-stranded nucleic acids. Initially, helicases were only thought to be molecular engines that unwind nucleic acids during replication, recombination, and DNA repair. Recent studies have shown that they are also involved in other biological processes, including displacement of proteins from nucleic acid, movement of Holliday junctions, chromatin remodeling, catalysis of nucleic acid conformational changes, several aspects of RNA metabolism, including transcription, mRNA splicing, mRNA export, translation, RNA stability and mitochondrial gene expression. Some human diseases, including Bloom's syndrome, Werner's syndrome, and Xeroderma Pigmentosum have been associated with defects in helicase function.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1802476816
NCBI Accession #	YP_009725308.1
NCBI GenBank Nucleotide #	YP_009725308.1
UniProt Accession #	P0DTD1
Molecular Weight	Molecular Mass: 112.8 kDa Actual Protein Molecular Mass: 120 kDa
NCBI Official Full Name	helicase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/covid-19-helicase-protein-coronavirus-recombinant-protein-e-coli/22154>