

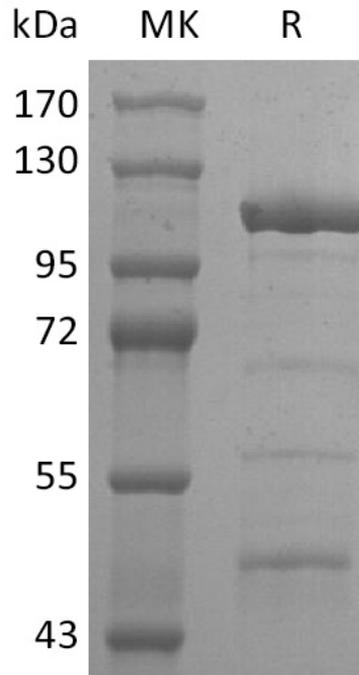
Product Name: Recombinant SARS-CoV-2 Helicase (N-6His-MBP)
Catalog #: PEV2240

Summary

Name	Helicase/NSP13
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	Please contact with the lab for this information
Construction	Recombinant 2019-nCoV Helicase is produced by our E.coli expression system and the target gene encoding Ala5325-Gln5925 is expressed with a 6His, MBP tag at the N-terminus.
Accession #	P0DTD1
Host	E.coli
Species	SARS-CoV-2
Predicted Molecular Mass	112.8 KDa
Formulation	Supplied as a 0.2 µm filtered solution of PBS, pH 7.4.
Shipping	The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	

SDS-PAGE image

Product Name: Recombinant SARS-CoV-2 Helicase (N-6His-MBP)
Catalog #: PEV2240



Alternative Names

SARS-CoV 2 Helicase; SARS-CoV 2 nsp13

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.

Note

For Research Use Only , Not for Diagnostic Use.