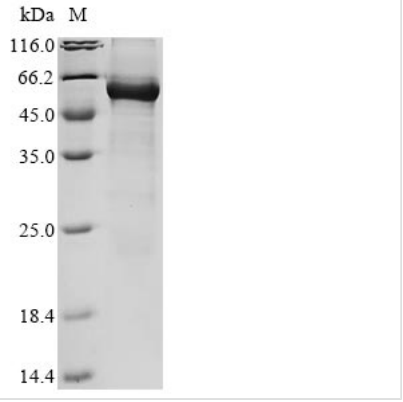
Recombinant Human Bifunctional 3'-5' exonuclease/ATP-dependent helicase WRN (WRN), partial

Product Code	CSB-EP614518HU1
Abbreviation	Recombinant Human WRN protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q14191
Form	Liquid or Lyophilized powder
Storage Buffer	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol.If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose.
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 85% as determined by SDS-PAGE.
Sequence	NLGLPTKEEEEDDENEANEGEEDDDKDFLWPAPNEEQVTCLKMYFGHSSFKP VQWKVIHSVLEERRDNVAVMATGYGKSLCFQYPPVYVGKIGLVISPLISLMEDQ VLQLKMSNIPACFLGSAQSENVLTDIKLGKYRIVYVTPEYCSGNMGLLQQLEAD IGITLIAVDEAHCISEWGHDFRDSFRKLGSLKTALPMVPIVALTATASSSIREDIV RCLNLRNPQITCTGFDRPNLYLEVRRKTGNILQDLQPFLVKTSSHWEFEGPTII YCPSRKMTQQVTGELRKLNLSCGTYHAGMSFSTRKDIHHRFVRDEIQCVIATIA FGMGINKADIRQVIHYGAPKDMESYYQEIGRAGRDGLQSSCHVLWAPADINLN RHLLTEIRNEKFRLYKLKMMAKMEKYLHSSRCRRQIILSHFEDKQVQKASLGIM GTEKCCDNCRSRLDHC
Research Area	Epigenetics and Nuclear Signaling
Source	E.coli
Target Names	WRN
Expression Region	500-946aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Mol. Weight	58.3 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

Amino acids 500-946 form the expressed segment for recombinant Human WRN. This WRN protein is theoretically predicted to have a molecular weight of 58.3 kDa. Expression of this WRN protein is conducted in e.coli. The WRN gene fragment has been modified by fusing the N-terminal 10xHis tag and C-terminal Myc tag, providing convenience in detecting and purifying the recombinant WRN protein during the following stages.

The human bifunctional 3'-5' exonuclease/ATP-dependent helicase WRN is a crucial protein involved in DNA metabolism and repair. It plays a central role in maintaining genome stability by participating in various DNA repair pathways, including base excision repair and double-strand break repair. Additionally, WRN is implicated in telomere maintenance, ensuring the integrity of chromosome ends. Mutations in the WRN gene are associated with Werner syndrome, a rare premature aging disorder. Ongoing research on WRN aims to elucidate its precise functions, unravel its intricate role in cellular processes, and explore potential therapeutic strategies for conditions related to DNA damage and aging.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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