DNA helicase II/uvrD Protein, E.coli

Cat. No.:	HY-P72296
Synonyms:	pdeB; DNA helicase II
Species:	E.coli
Source:	E. coli
Accession:	P03018 (M1-V720)
Gene ID:	66672280
Molecular Weight:	Approximately 82.0 kDa

PROPERTIES

AA Sequence

MDVSYLLDSL	NDKQREAVAA	PRSNLLVLAG	AGSGKTRVLV
HRIAWLMSVE	NCSPYSIMAV	TFTNKAAAEM	RHRIGQLMGT
SQGGMWVGTF	HGLAHRLLRA	HHMDANLPQD	FQILDSEDQL
RLLKRLIKAM	NLDEKQWPPR	QAMWYINSQK	DEGLRPHHIQ
SYGNPVEQTW	QKVYQAYQEA	CDRAGLVDFA	ELLLRAHELW
LNKPHILQHY	RERFTNILVD	EFQDTNNIQY	AWIRLLAGDT
GKVMIVGDDD	QSIYGWRGAQ	VENIQRFLND	FPGAETIRLE
QNYRSTSNIL	SAANALIENN	NGRLGKKLWT	DGADGEPISL
YCAFNELDEA	RFVVNRIKTW	QDNGGALAEC	AILYRSNAQS
RVLEEALLQA	SMPYRIYGGM	RFFERQEIKD	ALSYLRLIAN
RNDDAAFERV	VNTPTRGIGD	RTLDVVRQTS	RDRQLTLWQA
CRELLQEKAL	AGRAASALQR	FMELIDALAQ	ETADMPLHVQ
TDRVIKDSGL	RTMYEQEKGE	KGQTRIENLE	ELVTATRQFS
YNEEDEDLMP	LQAFLSHAAL	EAGEGQADTW	QDAVQLMTLH
SAKGLEFPQV	FIVGMEEGMF	PSQMSLDEGG	RLEEERRLAY
VGVTRAMQKL	TLTYAETRRL	YGKEVYHRPS	RFIGELPEEC
VEEVRLRATV	SRPVSHQRMG	TPMVENDSGY	KLGQRVRHAK
FGEGTIVNME	GSGEHSRLQV	AFQGQGIKWL	VAAYARLESV

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder
Formulation	Lyophilized from 0.22 μm filtered solution in PBS, 6% Trehalose, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	DNA helicase II/uvrD protein is a helicase exhibiting DNA-dependent ATPase activity. It functions by unwinding DNA duplexes with a 3' to 5' polarity concerning the bound strand, showing a higher efficiency in initiating unwinding from a nicked substrate compared to double-stranded duplex DNA. The protein is actively engaged in the post-incision stages of nucleotide excision repair and methyl-directed mismatch repair. Additionally, it is likely involved in the repair of alkylated DNA, indicating a versatile role in various DNA repair mechanisms. The coordinated activities of DNA helicase II/uvrD contribute to the maintenance of genomic integrity by facilitating the unwinding of DNA structures and participating in essential cellular processes related to DNA repair.

Caution: Product has not been fully validated for medical applications. For research use only.

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