

Recombinant Escherichia coli UVRD Protein (1-720 aa)

Cat. No. UVRD-2458E **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Escherichia coli (strain K12) UVRD Protein (1-720 aa) is produced by E. coli expression system. Protein Description: Full Length.
Species	E.coli
Source	E.coli
ProteinLength	1-720 aa
Description	A helicase with DNA-dependent ATPase activity. Unwinds DNA duplexes with 3' to 5' polarity with respect to the bound strand. Initiates unwinding more efficiently from a nicked substrate than ds duplex DNA. Involved in the post-incision events of nucleotide excision repair and methyl-directed mismatch repair, and probably also in repair of alkylated DNA.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	82.0 kDa
AA Sequence	MDVSYLLDSLNDKQREAVAAPRSNLLVLGAGSGKTRVLVHRIAWLMSVENCSPYSI MAVTFNKAAMRHRIGQLMGTSQGGMWVGTFHGLAHRLLRAHHMDANLPQDF QILDSEDQLRLLKRLIKAMNLDEKQWPPRQAMWYINSQKDEGLRPHHIQSYGNPVE QTWQKVYQAYQEACDRAGLVDFAEALLRAHELWLNKPHILQHYRERFTNILVDEFQ DTNNIQYAWIRLLAGDTGKVMIVGDDDQSIYGWRGAQVENIQRFLNDFPGAETIRLE QNYRSTSNILSAANALIENNNGRLGKKLWTDGADGEPISLYCAFNELDEARFVVRNIK

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TWQDNGGALAECAILYRSNAQSRVLEEALLQASMPYRIYGGMRFFERQEIKDALSYL
 RLIANRNDDAAFERVVNTPTRGIGDRTL DVVRQTSRDRQLTLWQACRELLQEKALA
 GRAASALQRFMELIDALAQETADMPLHVQTDRVIKDSGLRTMYEQEKGEKGQTRIE
 NLEELVTATRQFSYNEEDEDLMPLQAFLSHAAL EAGEGQADTWQDAVQLMTLHSAK
 GLEFPQVFIVGMEEGMFPSQMSLDEGGRLEEERRLAYVGVTRAMQKLTLTYAETRR
 LYGKEVYHRPSRFIGELPEECVVEEVR LRATVSRPVSHQRMGTPMVENDSGYKLGQ
 RVRHAKFGEGTIVNMEGSGEHSRLQVAFQGGQGIKWLVAAYARLESV

Purity > 85% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

GENE INFORMATION

Gene Name *uvrD* ssDNA translocase and dsDNA helicase - DNA helicase II [*Escherichia coli* str. K-12 substr. MG1655]

Official Symbol *UVRD*

Synonyms *uvrD*; *dar-2*; *dda*; ECK3808; *mutU*; *pdeB*; *rad*; *recL*; *srjC*; *uvr502*; *uvrE*;

Gene ID 948347

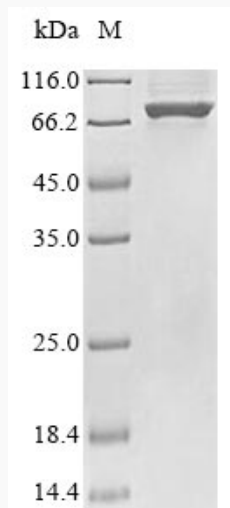
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Protein Refseq NP_418258

UniProt ID P03018



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

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