

DNA helicase II Protein, E. coli, Recombinant

General Information

Synonyms: DNA helicase II; DNA 3'-5' helicase II; rad; pdeB; mutU; recL; uvrD

Protein Construction: 1-720 aa

Species: E. coli

Expression Host: E. coli

Accession: P03018

Molecular Weight: 82.0 kDa (predicted)

AA Sequence: MDVSYLLDSLNDKQREAVAAPRSNLLVLAGAGSGKTRVLVHRIAWLMSVENCSYSPYSIMAVTFTNKAAAEMR
HRIGQLMGTSQGGMWVGFHGLAHRLRAHMDANLPQDFQILDSEDLRLLKRLIKAMNLDEKQWPPRQ
AMWYINSQKDEGLRPHHIQSYGNPVEQTWQKVYQAYQEACDRAGLVDFAEALLRAHELWLNKPHILQH
ERFTNILVDEFQDTNNIQYAWIRLLAGDTGKVMIVGDDDDQSIYGWRGAQVENIQRFLNDFPGAETIRLEQNYR
STSNILSAANALIENNNGRLGKKLWTDGADGEPISLYCAFNELDEARFVNRITWQDNGGALAECAILYRSN
AQRSVLEEALLQASMPYRIYGGMRFFERQEIKDALSYLRLIANRNDAAFERVVNTPTRGIGDRTLDVVRQTS
RDRQLTLWQACRELLQEALAGRAASALQRFMELIDALAQETADMPLHVQTDRIKDSGLRMYEQEKGEK
GQTRIELEELVTATRFQSYNEEDEDLMPQLQAFLSHAALAEAGEGQADTWQDAVQLMTLHSAKGLEFPQVIV
GMEEGMFPSQMSLDEGGRLEEERLAYVGVTRAMQKLTLYAETRRLYGKEVYHRPSRFIGELPEECVEEVRL
RATVSRPVSHQRMGTPMVENDSGYKLGQVRVHAKFGEGTIVNMEGSGEHSRLQVAFQGGQIKWLVAAYAR
LESV

QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.

Purity: > 85% as determined by SDS-PAGE.

Endotoxin: < 1.0 EU/μg of the protein as determined by the LAL method.

Formulation: Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

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