

RtcB Protein, E. coli, Recombinant (His)

General Information

Synonyms: RNA-splicing ligase RtcB;yhgL;3'-phosphate/5'-hydroxy nucleic acid ligase;rtcB

Protein Construction: 1-408 aa

Species: E. coli

Expression Host: P. pastoris (Yeast)

Accession: P46850

Molecular Weight: 47.2 kDa (predicted)

AA Sequence:

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MNYELLTENAPVKMWTGKVPVEADARQQLINTAKMPFIFKHIAVMPDVHLGKGSTIGSVIPTKGAIIPAAVG
VDIGCGMNALRTALTAEDLPENLAELRQAIETAVPHGRTTGRCKRDKGAWENPPVNVDAKWAELEAGYQWL
TQKYPRFLNTNYYKHLGLGTGNHFIEICLDESDQVWIMLHSGSRGIGNAIGTYFIDLAQKEMQETLETLP SRD
LAYFMEGTEYFDDYLKAWAWAQLFASLNRDAMMENVVTALQSITQKTVRQPQLAMEEINCHHNYVQKEQ
HFGEEIYVTRKGAVSARAGQYGIIPGSMGAKSFIVRGLGNEESFCSCSHGAGRVM SRTKAKKLFVSDQIRATA
HVECRKDAEVIDEIPMAYKDIDAVMAAQSDLVEVIYTLRQVVCVKG
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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: > 90% 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

GTP-dependent RNA ligase that is involved in tRNA splicing and RNA repair. Joins RNA with 2',3'-cyclic-phosphate or 3'-phosphate ends to RNA with 5'-hydroxy ends. Also acts as a DNA ligase in case of DNA damage by splicing

A DRUG SCREENING EXPERT

'dirty' DNA breaks, characterized by 3'-phosphate (or cyclic-phosphate) and 5'-hydroxy ends that cannot be sealed by classical DNA ligases.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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