# Cobalt Transport Protein Cbin (Cbin) (SeD_A2357) Salmonella Dublin Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Cobalt transport protein CbiN (cbiN) (SeD_A2357), Recombinant Protein |
| **Full Product Name** | Recombinant Salmonella dublin Cobalt transport protein CbiN (cbiN) |
| **Product Gene Name** | SeD_A2357 recombinant protein |
| **Product Synonym Gene Name** | cbiN |
| **Product Synonym Names** | Recombinant Cobalt transport protein CbiN (cbiN); Cobalt transport protein CbiN; Energy-coupling factor transporter probable substrate-capture protein CbiN; ECF transporter S component CbiN |
| **Sequence** | MKKTLMLLAM VVALVILPFF INHGGEYGGS DGEAESQIQA IAPQYKPWFQ PLYEPASGEI ESLLFTLQGS LGAAVIFYIL GYCKGKQRRD DRA |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degree C. For extended storage, store at -20 or -80 degree C. |
| **Molecular Weight** | 10,269 Da |
| **Sequence Positions** | 1-93 |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **Chromosome Location** | NC_011205.1 (2233110..2233391, complement) |
| **3D Structure** | ModBase 3D Structure for B5FLZ0 |
| **Species** | Salmonella dublin (strain CT_02021853) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for SeD_A2357 recombinant protein** | MBS1231828 is a recombinant protein targeting SeD_A2357. Also known as Recombinant Salmonella dublin Cobalt transport protein CbiN (cbiN). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of SeD_A2357 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SeD_A2357. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 198244613 |
| **NCBI GeneID** | 6873373 |
| **NCBI Accession #** | YP_002216107.1 |
| **UniProt Primary Accession #** | B5FLZ0 |

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| **UniProt Related Accession #** | ZP_02350914 |
| **GenBank Nucleotide #** | NC_011205.1 |
| **NCBI Official Full Name** | cobalt transport protein CbiN |
| **NCBI Official Symbol** | SeD_A2357 |
| **UniProt Protein Name** | Cobalt transport protein CbiN |
| **UniProt Synonym Protein Names** | Energy-coupling factor transporter probable substrate-capture protein CbiN |
| **UniProt Gene Name** | cbiN |
| **UniProt Synonym Gene Names** | ECF transporter S component CbiN |
| **UniProt Entry Name** | CBIN_SALDC |
| **NCBI Protein Information** | cobalt transport protein CbiN |
| **UniProt Comments for SeD_A2357** | Function: Part of the energy-coupling factor (ECF) transporter complex CbiMNOQ involved in cobalt import<br><br>By similarity. HAMAP-Rule MF_00330<br><br>Pathway: Cofactor biosynthesis; adenosylcobalamin biosynthesis. HAMAP-Rule MF_00330<br><br>Subunit structure: Forms an energy-coupling factor (ECF) transporter complex composed of an ATP-binding protein (A component, CbiO), a transmembrane protein (T component, CbiQ) and 2 possible substrate-capture proteins (S components, CbiM and CbiN) of unknown stoichimetry<br><br>By similarity.<br><br>Subcellular location: Cell inner membrane; Multi-pass membrane protein<br><br>By similarity HAMAP-Rule MF_00330.<br><br>Sequence similarities: Belongs to the CbiN family. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
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