# Membrane Protein Insertase Yidc (yidC) Vibrio Cholerae Serotype O1 Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Membrane protein insertase YidC (yidC), Recombinant Protein |
| **Full Product Name** | Recombinant Vibrio cholerae serotype O1 Membrane protein insertase YidC (yidC) |
| **Product Gene Name** | yidC recombinant protein |
| **Product Synonym Gene Name** | Recombinant Membrane protein insertase YidC (yidC); Membrane protein insertase YidC; Foldase YidC Membrane integrase YidC Membrane protein YidC |
| **Sequence** | MDSQRNILLI ALALVSFLLF QQWQVAKNPA PQATQQAQST GAAPAPSFSD ELDPTPAQNV AAKAKTITVS TDVLTLSIDT LGGDVVSAKL NQYSEELNSP ESFVLLQNTQ GHQFIAQSGL VGPQGIDVTS NNRPAYQVSA DSFTLAEGQD ELRIPMTYQA NGIDYTKTFI LKRGSYAVDV VFDVANNSGS EATLGMYAHL RQNLLDSGGN LAMPTYRGGA YSTSDVRYKK YSFDDMKDRN LSAPNDVTVN WVAMIQHYFA SAWIPRDEPQ AQLYSRVINN LGDMGIRTPN KTIANGDKAE FEATLWVGPK LQDQMAATAP NLDLVVDYGW LWFIAKPLHW LLSVIQTFVG NWGVAIICLT FIVRGAMYPL TKAQYTSMAK MRMLQPKLQA MRERIGDDRQ RMSQEMMELY KKEKVNPLGG CLPILLQMPI FIALYWALME SVELRHSPFF GWIHDLSAQD PYYILPLLMG ASMFVIQKMS PTTITDPMQQ KIMTFMPVMF TFFFLWFPSG LVLYWLVSNI VTLIQQTLIY KALEKKGLHS K |
| **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** | 60,621 Da |
| **Sequence Positions** | 1-541 |
| **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** | Chromosome: I; NC_012578.1 (2271..3896, complement). Location: chromosome: I, country: Indonesia: Makassar, other: 1937 |
| **3D Structure** | ModBase 3D Structure for C3LP77 |
| **Species** | Vibrio cholerae serotype O1 (strain M66-2) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for yidC recombinant protein** | MBS1127727 is a recombinant protein targeting yidC. Also known as Recombinant Vibrio cholerae serotype O1 Membrane protein insertase YidC (yidC). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. yidC |
| **Other Notes** | Small volumes of yidC 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 yidC. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 227080241 |

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| **NCBI GeneID** | 7771302 |
| **NCBI Accession #** | YP_002808792.1 |
| **UniProt Primary Accession #** | C3LP77 |
| **UniProt Related Accession #** | C3LP77 |
| **GenBank Nucleotide #** | NC_012578.1 |
| **NCBI Official Full Name** | putative inner membrane protein translocase component YidC |
| **NCBI Official Symbol** | yidC |
| **UniProt Protein Name** | Membrane protein insertase YidC |
| **UniProt Synonym Protein Names** | Foldase YidC; Membrane integrase YidC; Membrane protein YidC |
| **Protein Family** | Membrane protein insertase |
| **UniProt Gene Name** | yidC |
| **UniProt Entry Name** | YIDC_VIBCM |
| **NCBI Protein Information** | putative inner membrane protein translocase component YidC |
| **UniProt Comments for yidC** | Function: Required for the insertion and/or proper folding and/or complex formation of integral membrane proteins into the membrane. Involved in integration of membrane proteins that insert both dependently and independently of the Sec translocase complex, as well as at least some lipoproteins. Aids folding of multispanning membrane proteins<br><br>By similarity. HAMAP-Rule MF_01810<br><br>Subunit structure: Interacts with the Sec translocase complex via SecD. Specifically interacts with transmembrane segments of nascent integral membrane proteins during membrane integration<br><br>By similarity.<br><br>Subcellular location: Cell inner membrane; Multi-pass membrane protein<br><br>By similarity HAMAP-Rule MF_01810.<br><br>Sequence similarities: Belongs to the OXA1/ALB3/YidC family. Type 1 subfamily. |
| **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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