# N-Acetylmuramic Acid 6-Phosphate Etherase (murQ) Salinibacter Ruber Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | N-acetylmuramic acid 6-phosphate etherase (murQ), Recombinant Protein |
| **Full Product Name** | Recombinant Salinibacter ruber N-acetylmuramic acid 6-phosphate etherase (murQ) |
| **Product Gene Name** | murQ recombinant protein |
| **Product Synonym Gene Name** | murQ |
| **Sequence** | MPRMPDSSSL FDELQDLATE QQNPHSTHID TASVEEILRV INTEDHKVPI AVRRELPHIA EAVEIVVEAF EADGRLFYVG AGTSGRLGVV DASECPPTFG TDPERVQGII AGGREAVFRS QEGAEDVPER GAQALKGQGV TENDVVCGIA SSGRTPFVVG AVEHARDAIG CPTLFVTTIP REELDVDPDV AICPVVGPEV IMGSTRMKSG TAQKLVLNMI TTAAMVRLGK VYENMMVDLR RTSEKLVERG IRTVMMVTGV DYDAADAVLT RCDGHVKTAL VMILADVEVD EARRRLDATD GFVRPAIEGD E |
| **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 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 33,551 Da |
| **Sequence Positions** | 1-311, full length protein |
| **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. |
| **3D Structure** | ModBase 3D Structure for Q2S6G3 |
| **Species** | Salinibacter ruber (strain DSM 13855 / M31) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for murQ recombinant protein** | MBS1380537 is a recombinant protein targeting murQ. Also known as Recombinant Salinibacter ruber N-acetylmuramic acid 6-phosphate etherase (murQ). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of murQ 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 murQ. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499722117 |
| **NCBI GeneID** | 3851019 |
| **NCBI Accession #** | WP_011402851.1 |
| **UniProt Primary Accession #** | Q2S6G3 |

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| **UniProt Related Accession #** | Q2S6G3 |
| **GenBank Nucleotide #** | WP_011402851.1 |
| **NCBI Official Full Name** | N-acetylmuramic acid 6-phosphate etherase |
| **NCBI Official Symbol** | murQ |
| **NCBI Official Synonym Symbols** | yfeU |
| **UniProt Protein Name** | N-acetylmuramic acid 6-phosphate etherase |
| **UniProt Synonym Protein Names** | N-acetylmuramic acid 6-phosphate hydrolase |
| **Protein Family** | N-acetylmuramic acid 6-phosphate etherase |
| **UniProt Gene Name** | murQ |
| **UniProt Synonym Gene Names** | MurNAc-6-P etherase |
| **NCBI Protein Information** | N-acetylmuramic acid 6-phosphate etherase |
| **UniProt Comments for murQ** | Specifically catalyzes the cleavage of the D-lactyl ether substituent of MurNAc 6-phosphate, producing GlcNAc 6-phosphate and D-lactate. |
| **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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