# Glutamate Racemase (murI) Rhizobium Loti Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Glutamate racemase (murI), Recombinant Protein |
| **Full Product Name** | Recombinant Rhizobium loti Glutamate racemase (murI) |
| **Product Gene Name** | murI recombinant protein |
| **Product Synonym Gene Name** | murI |
| **Sequence** | MTDQPILMFD SGVGGLTVLR EARVLMPDRR FVYVADDAAF PFGAWEEPAL RTHILDLFVK LLDRFAPAIS VIACNTASTL VIDALRERFP GHPFVGTVPA VKPAAERTRS GLVSVLATPG TVKRQYTRDL ISKWAQKCHV RLVGSDRLAG LAEVYMREGF VDEEAVRAEI APCFMEHEGL RTDIVVLACT HYPFLVNRMR KTAPWPVDWI DPAEAIARRA LSLLPPVDGA LPQGEPDIAV FTSGKTDFAI GRLMQGFGLS VR |
| **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** | 28,885 Da |
| **Sequence Positions** | 1-262, 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 Q98NP9 |
| **Species** | Rhizobium loti (strain MAFF303099) (Mesorhizobium loti) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for murI recombinant protein** | MBS1309016 is a recombinant protein targeting murI. Also known as Recombinant Rhizobium loti Glutamate racemase (murI). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of murI 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 murI. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 764980589 |
| **NCBI Accession #** | WP_044547414.1 |
| **UniProt Primary Accession #** | Q98NP9 |
| **GenBank Nucleotide #** | WP_044547414.1 |
| **NCBI Official Full Name** | glutamate racemase |

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| **UniProt Protein Name** | Glutamate racemase |
| **Protein Family** | Glutamate racemase |
| **UniProt Gene Name** | murI |
| **UniProt Comments for murI** | Provides the (R)-glutamate required for cell wall biosynthesis. |
| **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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