# [Protein-PII] Uridylyltransferase (glnD) Brucella Ovis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | [Protein-PII] uridylyltransferase (glnD), Recombinant Protein |
| **Full Product Name** | Recombinant Brucella ovis [Protein-PII] uridylyltransferase (glnD), partial |
| **Product Gene Name** | glnD recombinant protein |
| **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** | 105,884 Da |
| **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 A5VN81 |
| **Species** | Brucella ovis (strain 25840 / 63/290 / 10512) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for glnD recombinant protein** | MBS1228431 is a recombinant protein targeting glnD. Also known as Recombinant Brucella ovis [Protein-PII] uridylyltransferase (glnD), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of glnD 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 glnD. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 492823777 |
| **NCBI Accession #** | WP_005977762.1 |
| **UniProt Primary Accession #** | A5VN81 |
| **GenBank Nucleotide #** | WP_005977762.1 |
| **NCBI Official Full Name** | bifunctional uridylyltransferase/uridylyl-removing protein |
| **UniProt Protein Name** | Bifunctional uridylyltransferase/uridylyl-removing enzyme |
| **UniProt Synonym Protein Names** | Bifunctional [protein-PII] modification enzyme |
| **Protein Family** | Bifunctional uridylyltransferase/uridylyl-removing enzyme |
| **UniProt Gene Name** | glnD |
| **UniProt Synonym Gene Names** | UTase/UR; PII uridylyltransferase; UTase; UR |

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| **UniProt Comments for glnD** | Modifies, by uridylylation and deuridylylation, the PII regulatory proteins (GlnB and homologs), in response to the nitrogen status of the cell that GlnD senses through the glutamine level. Under low glutamine levels, catalyzes the conversion of the PII proteins and UTP to PII-UMP and PPi, while under higher glutamine levels, GlnD hydrolyzes PII-UMP to PII and UMP (deuridylylation). Thus, controls uridylylation state and activity of the PII proteins, and plays an important role in the regulation of nitrogen assimilation and metabolism. |
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