[Protein-PII] Uridylyltransferase (glnD) Rhodobacter Sphaeroides Recombinant Protein

PRODUCT OVERVIEW

Product Name	[Protein-PII] uridylyltransferase (glnD), Recombinant Protein
Full Product Name	Recombinant Rhodobacter sphaeroides [Protein-PII] uridylyltransferase (glnD), partial
Product Gene Name	glnD recombinant protein
Product Synonym Gene Name	glnD
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	105,347 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 Q3J5H6
Species	Rhodobacter sphaeroides (strain 17023 / 2.4.1 / NCIB 8253 / DSM 158)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for glnD recombinant protein	MBS1404864 is a recombinant protein targeting glnD. Also known as Recombinant Rhodobacter sphaeroides [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.

NCBI GI #	499656266
NCBI GeneID	3719057
NCBI Accession #	WP_011337000.1
UniProt Primary Accession #	Q3J5H6
UniProt Related Accession #	Q3J5H6
GenBank Nucleotide #	WP_011337000.1
NCBI Official Full Name	uridylyltransferase
NCBI Official Symbol	glnD
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
NCBI Protein Information	UTP--GlnB (protein PII) uridylyltransferase, GlnD
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 fixation and metabolism.
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