# Phosphoribosylglycinamide Formyltransferase 2 (purT) Pyrococcus Furiosus Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Phosphoribosylglycinamide formyltransferase 2 (purT), Recombinant Protein |
| **Full Product Name** | Recombinant Pyrococcus furiosus Phosphoribosylglycinamide formyltransferase 2 (purT) |
| **Product Gene Name** | purT recombinant protein |
| **Product Synonym Gene Name** | purT |
| **Sequence** | MIKLRDELGT ATTDSAQKIL LLGSGELGKE IAIEAQRLGV EVVAVDRYAN APAMQVAHRS YVGNMMDKDF LWSVVEREKP DAIIPEIEAI NLDALFEFEK EGYFVVPNAK ATWIAMHRER LRETLVKEAK VPTSRYMYAT TLDELYEACE KIGYPCHTKA IMSSSGKGSY FVRGPEDIPK AWEEAKTKAR GSAEKIIVEE HIDFDVEITE LAVRHFDENG EIVTTFPKPV GHYQIDGDYH ASWQPAEISE KAEREVYRIA KRITDVLGGL GLFGVEMFVK GDKVWANEVS PRPHDTGMVT LASHPPGFSE FGLHLRAVLG LPIPGEWVDG YRLFPMLIPA ATHVIKAKVS GYSPRFRGLA KALSVPNATI RLFGKPEAYP GRRLGVVLAW DKDVQEAKKR AEMVAHMIEL RTRSSDWHSQ DYEKRKHLL |
| **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** | 48,231 Da |
| **Sequence Positions** | 1-429, 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 Q8U3M7 |
| **Species** | Pyrococcus furiosus (strain 43587 / DSM 3638 / JCM 8422 / Vc1) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for purT recombinant protein** | MBS1387033 is a recombinant protein targeting purT. Also known as Recombinant Pyrococcus furiosus Phosphoribosylglycinamide formyltransferase 2 (purT). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of purT 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 purT. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 499321053 |
| **NCBI Accession #** | WP_011011545.1 |
| **UniProt Primary Accession #** | Q8U3M7 |

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| **GenBank Nucleotide #** | WP_011011545.1 |
| **NCBI Official Full Name** | phosphoribosylglycinamide formyltransferase |
| **UniProt Protein Name** | Formate-dependent phosphoribosylglycinamide formyltransferase |
| **UniProt Synonym Protein Names** | 5'-phosphoribosylglycinamide transformylase 2 |
| **Protein Family** | Phosphoribosylglycinamide formyltransferase |
| **UniProt Gene Name** | purT |
| **UniProt Synonym Gene Names** | GART 2 |
| **UniProt Comments for purT** | Involved in the de novo purine biosynthesis. Catalyzes the transfer of formate to 5-phospho-ribosyl-glycinamide (GAR), producing 5-phospho-ribosyl-N-formylglycinamide (FGAR). Formate is provided by PurU via hydrolysis of 10-formyl-tetrahydrofolate. |
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