# Uroporphyrinogen-III Synthase (UROS) Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | Uroporphyrinogen-III synthase (UROS), Recombinant Protein |
| **Full Product Name** | Recombinant Human Uroporphyrinogen-III synthase (UROS) |
| **Product Gene Name** | UROS recombinant protein |
| **Sequence** | MKVLLLKDAK EDDCGQDPYI RELGLYGLEA TLIPVLSFEF LSLPSFSEKL SHPEDYGGLI FTSPRAVEAA ELCLEQNNKT EVWERSLKEK WNAKSVYVVG NATASLVSKI GLDTEGETCG NAEKLAEYIC SRESSALPLL FPCGNLKREI LPKALKDKGI AMESITVYQT VAHPGIQGNL NSYYSQQGVP ASITFFSPSG LTYSLKHIQE LSGDNIDQIK FAAIGPTTAR ALAAQGLPVS CTAESPTPQA LATGIRKALQ PHGCC |
| **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** | 28,628 Da |
| **Sequence Positions** | 1-265, 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. |
| **OMIM** | 263700 |
| **3D Structure** | ModBase 3D Structure for P10746 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for UROS recombinant protein** | This protein catalyzes the fourth step of porphyrin biosynthesis in the heme biosynthetic pathway. Defects in this gene cause congenital erythropoietic porphyria (Gunther s disease). |
| **Other Notes** | Small volumes of UROS 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. |
| **Searchable Terms for UROS purchase** | MBS957410 is a recombinant protein targeting UROS. Also known as Recombinant Human Uroporphyrinogen-III synthase (UROS). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for UROS. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4557873 |
| **NCBI GeneID** | 7390 |
| **NCBI Accession #** | NP_000366.1 |
| **UniProt Primary Accession #** | P10746 |

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| **UniProt Secondary Accession #** | Q9H2T1; B2RC13; D3DRF7 |
| **UniProt Related Accession #** | P10746 |
| **GenBank Nucleotide #** | NM_000375.2 |
| **NCBI Official Full Name** | uroporphyrinogen-III synthase isoform 2 |
| **NCBI Official Synonym Full Names** | uroporphyrinogen III synthase |
| **NCBI Official Symbol** | UROS |
| **NCBI Official Synonym Symbols** | UROIIIS |
| **UniProt Protein Name** | Uroporphyrinogen-III synthase |
| **UniProt Synonym Protein Names** | Hydroxymethylbilane hydrolyase [cyclizing]; Uroporphyrinogen-III cosynthase |
| **Protein Family** | Uroporphyrinogen-III synthase |
| **UniProt Gene Name** | UROS |
| **UniProt Synonym Gene Names** | UROIIIS; UROS |
| **NCBI Protein Information** | uroporphyrinogen-III synthase |
| **NCBI Summary for UROS** | The protein encoded by this gene catalyzes the fourth step of porphyrin biosynthesis in the heme biosynthetic pathway. Defects in this gene cause congenital erythropoietic porphyria (Gunther's disease). [provided by RefSeq, Jul 2008] |
| **UniProt Comments for UROS** | Catalyzes cyclization of the linear tetrapyrrole, hydroxymethylbilane, to the macrocyclic uroporphyrinogen III, the branch point for the various sub-pathways leading to the wide diversity of porphyrins. Porphyrins act as cofactors for a multitude of enzymes that perform a variety of processes within the cell such as methionine synthesis (vitamin B12) or oxygen transport (heme). |
| **Research Articles on UROS** | **1.** we show evidence that abnormal protein homeostasis is a prevalent mechanism responsible for UROS deficiency and that modulators of UROS proteolysis such as proteasome inhibitors or chemical chaperones may represent an attractive therapeutic option to reduce porphyrin accumulation and prevent skin photosensitivity in Congenital erythropoietic porphyria (CEP)patients when the genotype includes a missense variant. |
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