

Recombinant Human UDP-glucose pyrophosphorylase 2, His-tagged

Cat. No. UGP2-642H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGP2, 1-508aa Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-508 a.a.
Description	UGP2 is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. Recombinant human UGP2 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol,1mM DTT
Molecular Mass	59.3kDa (531aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMsRFVQD LSKAMSQDGA SQFQEVIRQE LELSVKKELE KILTTASSHE FEHTKKDLDG FRKLFHRFLQ EKGPSVDWGK IQRPPEDSIQ PYEKIKARGL PDNISSVLNK LVVVKLNGGL GTSMGCKGPK SLIGVRNENT FLDLTVQQIE HLNKTYNTDV PLVLMNSFNT DEDTKKILQK

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YNHCRVKIYT FNQSRYPRIK KESLLPVAKD VSYSAGENTEA WYPPGHGDIY
 ASFYNSGLLD TFIGEGKEYI FVSNIDNLGA TVDLYILNHL MNPPNGKRCE
 FVMEVTNKTR ADVKGGTLTQ YEGKLRLVEI AQVPAHVDE FKSVSFKIF
 NTNNLWISLA AVKRLQEQNA IDMEIIVNAK TLDGGLNVIQ LETAVGAAIK
 SFENSLGINV PRSRFLPVKT TSDLLLVM SN LYSLNAGSLT MSEKREFPTV
 PLVKLGSSFT KVQDYLRFE SIPDMLDLH LTVSGDVTFG KNSVLKGTVI
 IIANHGDRID IPPGAVLENK IVSGNLRILD H

Purity >85% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [UGP2 UDP-glucose pyrophosphorylase 2 \[Homo sapiens \]](#)

Official Symbol UGP2

Synonyms UGP2; UDP-glucose pyrophosphorylase 2; UDP glucose pyrophosphorylase 1 , UGP1; UTP--glucose-1-phosphate uridylyltransferase; UGPP1; UDPGP; UGPase 2; UDP-glucose diphosphorylase; UDP-glucose pyrophosphorylase 1; UTP-glucose-1-phosphate uridylyltransferase; UTP--glucose-1-phosphate uridylyltransferase 2; uridylyl diphosphate glucose pyrophosphorylase 2; UDPG; UGP1; UGPP2; UDPGP2; pH379;

Gene ID [7360](#)

mRNA Refseq [NM_001001521](#)

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Protein Refseq	NP_001001521
MIM	191760
UniProt ID	Q16851
Chromosome Location	2p14-p13
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, conserved biosystem; Biological oxidations, organism-specific biosystem;
Function	UTP:glucose-1-phosphate uridylyltransferase activity; UTP:glucose-1-phosphate uridylyltransferase activity; glucose binding; metal ion binding; nucleotidyltransferase activity; protein binding; pyrimidine ribonucleotide binding; transferase activity;