

---

**Product Data Sheet**


---

Product Name: UGP2 Human  
 Cat. No.: GP22380  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	UDP-Glucose Pyrophosphorylase 2; UDP-Glucose Pyrophosphorylase 1; EC 2.7.7.9; UGPP2; UDPGP; UGP1; UTP--Glucose-1-Phosphate Uridyltransferase 2 Uridyl Diphosphate Glucose Pyrophosphorylase-1; Uridyl Diphosphate Glucose Pyrophosphorylase 2; UTP--Glucose-1-Phosphate Uridyltransferase ; UTP-Glucose-1-Phosphate; Uridyltransferase; UDP-Glucose Pyrophosphorylase ; UDP-Glucose Diphosphorylase; UGPase 2; UDPGP2; PHC379; UGPase; UGPP1; UDPG.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMSRFVQD LSKAMSQDGA SQFQEVIRQE LELSVKKELE KILTTASSHE FEHTKKDLDG FRKLFHRFLQ EKGPSVDWVGK IQRPPEDSIQ PYEKIKARGL PDNISSVLNK LVVVKLNGGL GTSMGCKGPK SLIGVRNENT FDLTVQQIE HLNKTYNTDV PLVLMNSFNT DEDTKKILQK YNHCRVKIYT FNQSRYPRIKESLLPVAKD VSYSGENTEA WYPPGHGDIY ASFYNSGLLD TFIGEGKEYI FVSNIDNLGA TVDLYILNHL MNPPNGKRCE FVMEVTNKTR ADVKGGTLTQ YEGKLRLVEI AQVPKAHVDE FKSFSKFKIF NTNNLWISLA AVKRLQEQA IDMEIIVNAK TLDGGLNVIQ LETAVGAAIK SFENSLGINV PRSRFLPVKT TSDLLLVMNS LYSLNAGSLT MSEKREFPTV PLVKLGSSFT KVQDYLRFE SIPDMLELDH LTVSGDVTFG KNSLKGTVI IIANHGDRID IPPGAVLENK IVSGNLRILD H.		
Formulation	UGP2 protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4) and 20% glycerol, 1mM DTT.		

**Introduction**

UDP-Glucose Pyrophosphorylase 2, also known as UGP2 is an essential intermediary in mammalian carbohydrate interconversions. UGP2 transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. UDP-glucose is a

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

direct precursor of glycogen in the liver and muscle tissue, moreover in lactating mammary gland it is converted to UDP-galactose which is next converted to lactose.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

UGP2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 531 amino acids (1-508 a.a) and having a molecular mass of 59.3kDa. UGP2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA