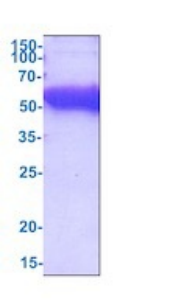
Full-Length

UGP2 (Human) Recombinant Protein

Catalog # P7715 Size 250 ug

Applications



SDS-PAGE analysis of UGP2 (Human) Recombinant Protein

Specification

Product Description	Human UGP2 (NP_006750.3, 1 a.a. - 508 a.a) full-length recombinant protein with His tag expressed in *Escherichia coli*.
Sequence	MGSSHHHHHHSSGLVPRGSHMGSMSRFVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILT TASSHEFEHTKKDLDGFRKLFHRFLQEKGPSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNK LVVVKLNGGLGTSMGCKGPKSLIGVRNENTFLDLTVQQIEHLNKTYNTDVPLVLMNSFNTDEDTKK ILQKYNHCRVKIYTFNQSRYPRINKESLLPVAKDVSYSGENTEAWYPPGHGDIYASFYNSGLLDTFIG EGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVMEVTNKTRADVKGGTLTQYEGKLRLVEIA QVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQEQNAIDMEIIVNAKTLDGGLNVIQLETAVGAAI KSFENSLGINVPRSRFLPVKTTSDLLLVMSNLYSLNAGSLTMSEKREFPTVPLVKLGSSFTKVQDY LRRFESIPDMLELDHLTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPPGAVLENKIVSGNLRILDH
Host	Escherichia coli
Theoretical MW (kDa)	59.3
Form	Liquid
Preparation Method	*Escherichia coli* expression system
Concentration	0.25mg/mL
Purity	> 90% by SDS-PAGE

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Quality Control Testing	3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain. SDS-PAGE analysis of UGP2 (Human) Recombinant Protein
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (1 mM DTT, 30% glycerol).
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- SDS-PAGE

Gene Info — UGP2

Entrez GeneID	7360
Protein Accession#	Q16851
Gene Name	UGP2
Gene Alias	UDPG, UDPGP2, UGPP2, pHC379
Gene Description	UDP-glucose pyrophosphorylase 2
Omim ID	191760
Gene Ontology	Hyperlink
Gene Summary	The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate interc onversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glu cose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lact ating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eu karyotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript v ariants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	UDP-glucose diphosphorylase|UGPase 2|UTP--glucose-1-phosphate uridylyltransferase 2|UTP-gl ucose-1-phosphate uridyltransferase|uridyl diphosphate glucose pyrophosphorylase 2

Pathway

- Amino sugar and nucleotide sugar metabolism

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- Galactose metabolism
- Metabolic pathways
- Pentose and glucuronate interconversions
- Starch and sucrose metabolism

Disease

- Birth Weight
- Genetic Predisposition to Disease
- Hyperbilirubinemia

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