Recombinant Full Length Human UGP2 Protein, C-Flag-tagged

Cat. No. UGP2-788HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UGP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	The enzyme encoded by this gene 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. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript variants encoding different isoforms have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	56.8 kDa
AA Sequence	MSRFVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDG FRKLFHRFLQEKG PSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKLVVVKLN GGLGTSMGCKGPKSLIGVRNENTFLD LTVQQIEHLNKTYNTDVPLVLMNSFNTDED TKKILQKYNHCRVKIYTFNQSRYPRINKESLLPVAKDVSY SGENTEAWYPPGHGDIY ASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVM EVTNK TRADVKGGTLTQYEGKLRLVEIAQVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQ

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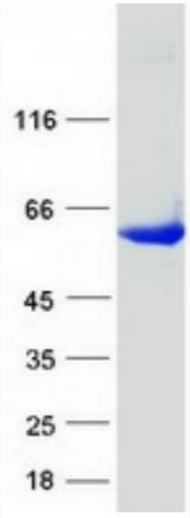
	EQNAIDM EIIVNAKTLDGGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLL LVMSNLYSLNAGSLTMSE KREFPTVPLVKLGSSFTKVQDYLRRFESIPDMLELDHLT VSGDVTFGKNVSLKGTVIIIANHGDRIDIPP GAVLENKIVSGNLRILDHTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	UGP2 UDP-glucose pyrophosphorylase 2 [Homo sapiens (human)]
Official Symbol	UGP2

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Synonyms	UDPG; UGP1; DEE83; UDPGP; UGPP1; UGPP2; EIEE83; SVUGP2; UDPGP2; pHC379
Gene ID	7360
mRNA Refseq	NM_006759.4
Protein Refseq	NP_006750.3
MIM	191760
UniProt ID	Q16851



Coomassie blue staining of purified UGP2 protein.

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