

UTP--glucose-1-phosphate uridylyltransferase Recombinant Protein | UGP2 recombinant protein

Recombinant Human UTP--glucose-1-phosphate uridylyltransferase

CATALOG # AAA117679	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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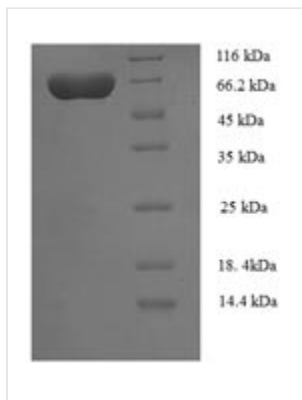
PRODUCT SYNONYMS

UTP--glucose-1-phosphate uridylyltransferase; Recombinant Human UTP--glucose-1-phosphate uridylyltransferase; UDP-glucose pyrophosphorylase; UDPGP; UGPase; UGP2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE.
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Sequence Positions	1-497aa; Full Length of Isoform 2
Sequence	MSQDGASQFQ EVIRQEELS VKKELEKILT TASSHEFEHT KKDLDGFRKL FHRFLQEKGP SVDWGGKIQRP PEDSIQPYEK IKARGLPDNI SSVLNKLVVV KLNGGLGTSM GCKGPKSLIG VRNENTFLDL TVQQIEHLNK TYNTDVLPLV MNSFNTDEDT KKILQKYNHC RVKIYTFNQS RYPRINKESL LPVAKDVSYS GENTEAWYPP GHGDIYASFY NSGLLDTFIG EGKEYIFVSN IDNLGATVDL YILNHLMNPP NGKRCEVME VTNKTRADV K GGTLTQYEGK LRLVEIAQVP KAHVDEFKSV SKFKIFNTNN LWISLA AVKR LQEQNAIDME IIVNAKTLDG GLNVIQLETA VGAAIKSFEN SLGINVPRSR FLPVKTTSDL LLVMSNLYSL NAGSLTMSEK REFPTVPLVK LGSSFTKVQD YLRRFESIPD MLELDHLTVS GDVTFGKNVS LKGTVIIIAN HGDRIDIPPG AVLENKIVSG NLRILDH
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for UGP2 recombinant protein	Plays a central role as a glucosyl donor in cellular metabolic pathways.
Product Categories/Family for UGP2 recombinant protein	Cancer

References

Cloning of a human liver UDP-glucose pyrophosphorylase cDNA by complementation of the bacterial galU mutation.Peng H.-L., Chang H.-Y.FEBS Lett. 329:153-158(1993) Sequence differences between human muscle and liver cDNAs for UDPglucose pyrophosphorylase and kinetic properties of the recombinant enzymes expressed in Escherichia coli.Duggleby R.G., Chao Y.C., Huang J.G., Peng H.-L., Chang H.-Y.Eur. J. Biochem. 235:173-179(1996) The importance of conserved residues in human liver UDPglucose pyrophosphorylase.Chang H.-Y., Peng H.-L., Chao Y.C., Duggleby R.G.Eur. J. Biochem. 236:723-728(1996) Lysine acetylation targets protein complexes and co-regulates major cellular functions.Choudhary C., Kumar C., Gnad F., Nielsen M.L., Rehman M., Walther T.C., Olsen J.V., Mann M.Science 325:834-840(2009) Quantitative phosphoproteomics reveals widespread full phosphorylation site occupancy during mitosis.Olsen J.V., Vermeulen M., Santamaria A., Kumar C., Miller M.L., Jensen L.J., Gnad F., Cox J., Jensen T.S., Nigg E.A., Brunak S., Mann M.Sci. Signal. 3:RA3-RA3(2010) Initial characterization of the human central proteome.Burkard T.R., Planyavsky M., Kaupe I., Breitwieser F.P., Buerckstummer T., Bennett K.L., Superti-Furga G., Colinge J.BMC Syst. Biol. 5:17-17(2011) System-wide temporal characterization of the proteome and phosphoproteome of human embryonic stem cell differentiation.Rigbolt K.T., Prokhorova T.A., Akimov V., Henningsen J., Johansen P.T., Kratchmarova I., Kassem M., Mann M., Olsen J.V., Blagoev B.Sci. Signal. 4:RS3-RS3(2011) N-terminal acetylome analyses and functional insights of the N-terminal acetyltransferase NatB.Van Damme P., Lasa M., Polevoda B., Gazquez C., Elosegui-Artola A., Kim D.S., De Juan-Pardo E., Demeyer K., Hole K., Larrea E., Timmerman E., Prieto J., Arnesen T., Sherman F., Gevaert K., Aldabe R.Proc. Natl. Acad. Sci. U.S.A. 109:12449-12454(2012) An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome.Bian Y., Song C., Cheng K., Dong M., Wang F., Huang J., Sun D., Wang L., Ye M., Zou H.J. Proteomics 96:253-262(2014) The crystal structure of human UDP-glucose pyrophosphorylase reveals a latch effect that influences enzymatic activity.Yu Q., Zheng X.Biochem. J. 442:283-291(2012)

NCBI AND UNIPROT INFORMATION

NCBI GI #	48255968
NCBI GeneID	7360
NCBI Accession #	NP_001001521.1
NCBI GenBank Nucleotide #	NM_001001521.1
UniProt Accession #	Q16851; Q07131; Q0P6K2; Q86Y81; Q9BU15
Molecular Weight	71.7 kDa
NCBI Official Full Name	UTP--glucose-1-phosphate uridylyltransferase isoform b
NCBI Official Synonym Full Names	UDP-glucose pyrophosphorylase 2
NCBI Official Symbol	UGP2
NCBI Official Synonym Symbols	UDPG; UGP1; UDPGP; UGPP1; UGPP2; UDPGP2; pH379
NCBI Protein Information	UTP--glucose-1-phosphate uridylyltransferase
UniProt Protein Name	UTP--glucose-1-phosphate uridylyltransferase
UniProt Gene Name	UGP2
UniProt Synonym Gene Names	UGP1; UDPGP; UGPase
UniProt Entry Name	UGPA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.