Recombinant human UGP2 protein

Catalog Number: ATGP2865

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-508aa

UniProt No.
Q16851

NCBI Accession No.
NP_006750.3

Alternative Names
UDP-glucose pyrophosphorylase 2, UDP-glucose pyrophosphorylase 1, UTP--glucose-1-phosphate uridylyltransferase, UGP1, UGPP1, SVUGP2, UDPGP, UGPase

PRODUCT SPECIFICATION

Molecular Weight
59.3 kDa (531aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol,1mM DTT

Purity
> 90% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

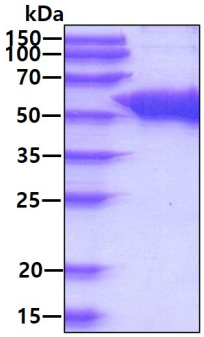
<MGSSHHHHHH SSGLVPRGSH MGS>MSRFVQD LSKAMSQDGA SQFQEVIRQE LELSVKKELE KILTTASSHE FEHTKKDLDG FRKLFHRFLQ EKGPSVDWGK IQRPPEDSIQ PYEKIKARGL PDNISSVLNK LVVVKLNGGL GTSMGCKGPK SLIGVRNENT FLDLTVQQIE HLNKTYNTDV PLVLMNSFNT DEDTKKILQK YNHCRVKIYT FNQSRYPRIN KESLLPVAKD VSYSGENTEA WYPPGHGDIY ASFYNSGLLD TFIGEGKEYI FVSNIDNLGA TVDLYILNHL MNPPNGKRCE FVMEVTNKTR ADVKGGTLTQ YEGKLRLVEI AQVPKAHVDE FKSVSKFKIF NTNNLWISLA AVKRLQEQNA IDMEIIVNAK TLDGGLNVIQ LETAVGAAIK SFENSLGINV PRSRFLPVKT TSDLLLVMSN LYSLNAGSLT MSEKREFPTV PLVKLGSSFT KVQDYLRRFE SIPDMLELDH LTVSGDVTFG KNVSLKGTVI IIANHGDRID IPPGAVLENK IVSGNLRILD H

General References

Fuhring,J., et al. (2013) Glycobiology 23 (4), 426-437

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.