

UGP2, 1-508aa Human, His tag, E.coli

Cat.NO.: TP04421

3th Edition

Synonyms:UTP-glucose-1-phosphate uridylyltransferase, UDP-glucose pyrophosphorylase, UDPG, UDPGP, UDPGP2, UGP1

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.

Form:Liquid. In Phosphate buffered saline (pH7.4) containing 20% glycerol,1mM DTT

Molecular Weight:59.3kDa (531aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMRFRVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTK
KDLDGFRKLFHRFLQEKGPSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKLVVVKLNGGLGTSMGCKGPKS
LIGVRNENTFLDLTVQQIEHLNKTYNTDVPLVLMNSFNTDEDTKKILQKYNHCRVKIYTFNQSRYPRIKESLLPVAK
DVSYSGENTEAWYPPGHGDIYASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFMVET
NKTRADVKGGLTQYEGKRLRLVEIAQVPKAHVDEFKSVSKFKIFNTNLLWISLAAVKRLQEQAIDMEIIVNAKTLDG
GLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMNSLYSLNAGSLTMSEKREFPTVPLVKLGSSFTKV
QDYLRREFESIPDMLELDHDTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPPGAVLENKIVSGNLRILDH

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.