

**UgDH, 1-494aa, Human, His tag, E.coli**

**Cat.NO.: TP04420**

3th Edition

**Synonyms:**GDH, UDP-GlcDH, UDPGDH, UGD, UDP-glucose dehydrogenase, UDP-glucose 6-dehydrogenase

**Description:**UGDH is a member of the UDP-glucose/GDP-mannose dehydrogenase family and is a ubiquitously expressed protein most abundant in the liver. This protein converts UDP-glucose to UDP-glucuronate and thereby participates in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated compounds are common components of the extracellular matrix and likely play roles in signal transduction, cell migration, and cancer growth and metastasis. Recombinant human UGDH protein, fused to his-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl, and 1mM EDTA.

**Molecular Weight:**59.5 kDa (533aa) confirmed by MALDI-TOF

**Sequences:**

MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSELEMFEIKKICIGAGYVGGPTCSVIAHMCPEIRVTVV  
DVNESRINAWNSPTLPIYEPGLKEVVESCRGKNLFFSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYIEACA  
RRIVQNSNGYKIVTEKSTVPVRAAESIRRFIDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGETPEGQRA  
VQALCAVYEHVWPREKILTTNTWSSELSKLAANAFLAQRISINSISALCEATGADVEEVATAIGMDQRIGNKFLKAS  
VGFGGSCFQKDVNLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKAAILGFAPKDTGDTR  
ESSSIYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRVLTISKDPYEACDGAHAVVICTEWD MFKEL  
DYERIHKKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIGKKVSSKRIPYAPSGEIPKFSLQDPPNKKPKV

**Purity:**> 95% by HPLC

**Concentration:**0.5 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.