

## Human Recombinant UGDH

<b>CATALOG #:</b>	6368-50	50 µg
<b>ALTERNATE NAMES:</b>	UDP-glucose dehydrogenase, GDH, UDP-GlcDH, UDPGDH, UGD.	
<b>SOURCE:</b>	E.Coli	
<b>PURITY:</b>	> 95% by SDS - PAGE	
<b>MOL. WEIGHT:</b>	59.5 kDa (533 aa, 1-494 aa + NT His-Tag)	
<b>FORMULATION:</b>	0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT, 0.1 M NaCl, and 1 mM EDTA.	

### STORAGE CONDITIONS:

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.

### DESCRIPTION:

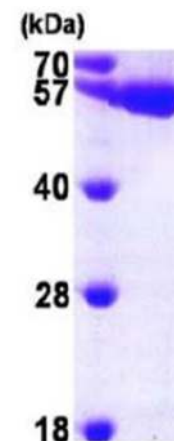
UGDH is part of the UDP-glucose/GDP-mannose dehydrogenase family and is a widely expressed enzyme localized in the liver. UGDH transfers UDP-glucose to UDP-glucuronate and thus takes part in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated products are ordinary molecules of the extracellular matrix and participate in signal transduction, cell migration, and cancer growth and metastasis.

### AMINO ACID SEQUENCE:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM FEIKKICCI  
AGYVGGPTCS VIAHMCPEIR VTVVDVNESR INAWNSPTLP IYEPGLKEVV ESCRGKNLFF  
STNIDDAIKE ADLVFISVNT PTKTYGMGKG RAADLKYIEA CARRIVQNSN GYKIVTEKST  
VPVRAAESIR RIFDANTKPN LNLQVLSNPE FLAEGTAIKD LKNPDRVLIG GDETPEGQRA  
VQALCAVYEH WVPREKILTT NTWSSSELSKL AANAFLAQRI SSINSISALC EATGADVEEV  
ATAIGMDQRI GNKFLKASVG FGGSCFQKDV LNLVYLCEAL NLPEVARYWQ  
QVIDMNDYQR RRFASRIIDS LFNTVTDKKI AILGFAPKDD TGDRESSSI YISKYLMDEG  
AHLHIYDPKV PREQIVVDLS HPGVSEDDQV SRLVTISKDP YEACDGAHAV VICTEWD MFK  
ELDYERIHKK MLKPAFIFDG RRVLDGLHNE LQTIGFQIET IGKKVSSKRI PYAPSGEIPK  
FSLQDPPNKK PKV

### BIOLOGICAL ACTIVITY:

Specific activity: > 0.1 unit/ml. One unit will oxidize 1.0 µmol of UDP-glucose to UDP-glucuronic acid per minute at pH 8.0 at 25°C



15% SDS-PAGE (3µg)

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### RELATED PRODUCTS:

- Glucose-6-Phosphate Dehydrogenase Activity Assay Kit (Cat. No. K757-100)
- DHEA (Cat. No. 2172-100, -500)
- Human recombinant G6PD (Cat. No. 6367-100)

**FOR RESEARCH USE ONLY! Not to be used in humans.**