

Human Recombinant UGDH

CATALOG #:	6368-50	50 µg
ALTERNATE NAMES:	UDP-glucose dehydrogenase, GDH, UDP-GlcDH, UDPGDH, UGD.	
SOURCE:	E.Coli	
PURITY:	> 95% by SDS - PAGE	
MOL. WEIGHT:	59.5 kDa (533 aa, 1-494 aa + NT His-Tag)	
FORMULATION:	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:

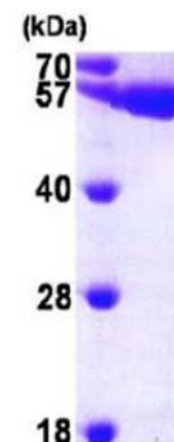
UGDH is part of the UDP-glucose/GDP-mannose dehydrogenase family and is a widely expressed enzyme localized in the liver. UGDH transfers UDP-glucose to UDP-glucuronate and thus takes part in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated 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 FEIKKICIG
AGYVGGPTCS VIAHMCPEIR VTVVDVNESR INAWNSPTLP IYEPGLKEVV ESCRGKNLFF
STNIDDAIKE ADLVFISVNT PTKTYGMKGK RAADLYIEA CARRIVQNSN GYKIVTEKST
VPVRAAESIR RIFDANTKPN LNLQVLNPE FLAEGTAIKD LKNPDRVLIG GDETPEGQRA
VQALCAVYEH WVPREKILT NTWSSSELSKL AANAFLAQRI SSINSISALC EATGADVEEV
ATAIGMDQRI GNKFLKASVG FGGSCFQKDV LNLVYLCEAL NLPEVARYWQ
QVIDMNDYQR RRFASRIIDS LFNTVTDKKI AILGFAFKKD 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 (3ug)

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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.