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**Product Data Sheet**


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Product Name: UGDH Human  
 Cat. No.: GP22377  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	GDH; UDP-GlcDH; UDPGDH; UGD; EC=1.1.1.22; UDP-Glc dehydrogenase; UDP-glucose 6-dehydrogenase; UGDH.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM FEIKKICIG AGYVGGPTCS VIAHMCPEIR VTVVDVNESR INAWNSPTLP IYEPGLKEVV ESCRGKNLFF STNIDDAIKE ADLVFISVNT PTKTYGMGKG RAADLKYIEA CARRIVQNSN GYKIVTEKST VPVRAAESIR RIFDANTKPN LNLQVLSNPE FLAEGTAIKD LKNPDRVLIG GDETPEGQRA VQALCAVYEH WVPREKILTT NTWSSELSKL AANAFLAQRI SSINSISALC EATGADVEEV ATAIGMDQRI GNKFLKASVG FGGSCFQKDV LNLVYLCEAL NLPEVARYWQ QVIDMNDYQR RRFASRIIDS LFNTVTDKKI AILGFAFKKD TGDRESSSI YISKYLMDEG AHLHIYDPKV PREQIVVDLS HPGVSEDDQV SRLVTISKDP YEACDGAHAV VICTEWDMPK ELDYERIHKK MLKPAFIFDG RRVLDGLHNE LQTIGFQIET IGKKVSSKRI PYAPSGEIPK FSLQDPPNKK PKV.		
Formulation	UGDH Human solution (0.5mg/ml)containing 20mM Tris-HCl pH-8, 1mM DTT, 1mM EDTA, 0.1M NaCl & 20% glycerol.		

**Introduction**

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.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

**Caution: Product has not been fully validated for medical applications. For research use only.**

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

UGDH Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide chain containing 533 amino acids (1-494 a.a.) and having a molecular mass of 59.5 kDa. The UGDH is fused to a 39 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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