

## UGDH Human

**Description:**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 39 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:ENPS-542

For research use only.

**Synonyms:**GDH, UDP-GlcDH, UDPGDH, UGD, EC=1.1.1.22, UDP-Glc dehydrogenase, UDP-glucose 6-dehydrogenase, UGDH.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile filtered colorless solution.

**Amino Acid Sequence:**MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM  
FEIKKICIG AGYVGGPTCS VIAHMCPEIR VTVVDVNESR INAWNSPTLP IYEPGLKEVV  
ESCRGKNLFF STNIDDAIKE ADLVFISVNT PTKTYGMGKG RAADLYIEA CARRIVQNSN  
GYKIVTEKST VPVRAAESIR RIFDANTKPN LNLQVLSNPE FLAEGTAIKD LKNPDRVLIG  
GDETPEGQRA VQ

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

UGDH Human solution (0.5mg/ml) containing 20mM Tris-HCl pH-8, 1mM DTT, 1mM EDTA, 0.1M NaCl & 20% glycerol.

### Stability:

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

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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