
Product Data Sheet

Product Name: UGDH Mouse
 Cat. No.: GP22378
 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	MGSSHHHHHH SGLVPRGSH MGSMVEIKKI CCIGAGYVGG PTCSVIAHMC PEIRVTVVDV NEARINAWNS PTLPIYEPGL KEVVESCRGK NLFSTNIDD AIREADLVFI SVNTPTKTYG MGKGRAADLK YIEACARRIV QNSNGYKIVT EKSTVPVRAA ESIRRIFDAN TKPNLNLQVL SNPEFLAEGT AIKDLKNPDR VLIIGDETPE GQKAVRALCA VYEHVWPKEK ILTTNTWSSE LSKLAANAFL AQRISINSI SALCEATGAD VEEVATAIGM DQRIGNKFLK ASVGFGGSCF QKDVLNLVYL CEALNLPEVA RYWQQVIDMN DYQRRRFASR IIDSLFNTVT DKKIAILGFA FKKDTGDTRE SSSIYISKYL MDEGAHLHIY DPKVPREQIV VDLSHPGVSA DDQVSRLVTI SKDPYEACDG AHALVICTEW DMFKELDYER IHKKMLKPAF IFDGRRVLDG LHSELQTIGF QIETIGKKVS SKRIPYTPGE IPKFSLQDPP NKKPKV.		
Formulation	UGDH protein solution (0.5mg/ml) containing 20mM MES buffer (pH5.0), 20% glycerol 150mM NaCl and 1mM EDTA.		

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.

Biological Activity

Specific activity is > 2.500 pmol/min/ug. and is defined as the amount of enzyme that

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converts 1.0 pmole of UDP-glucose to UDP-glucuronate per minute at pH 8.7 at 37°C.

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). Please prevent freeze-thaw cycles.

Background

UGDH Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 516 amino acids (1-493a.a.) and having a molecular mass of 57.2kDa. UGDH is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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