

32-6944: UGDH Mouse

Application : Functional Assay
Alternative Name : GDH, UDP-GlcDH, UDPGDH, UGD, EC=1.1.1.22, UDP-Glc dehydrogenase, UDP-glucose 6-dehydrogenase, UGDH.

Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount : 1 µg / 5 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
Content : UGDH protein solution (0.5mg/ml) containing 20mM MES buffer (pH5.0), 20% glycerol 150mM NaCl and 1mM EDTA.
Storage condition : 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.
Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSMVEIKKI CCIGAGYVGG PTCSVIAHMC PEIRVTVVDV NEARINAWNS PTLPIYEPGL KEVVESCRGK NLFSTNIDD AIREADLVFI SVNTPTKTYG MGKGRAADLK YIEACARRIV QNSNGYKIVT EKSTVPVRAA ESIRRIFDAN TKPNLNLQVL SNPEFLAEGT AIKDLKNPDR VLIIGDETPE GQKAVRALCA VYEHWVPKEK ILTTNTWSSE LSKLAANAFI AQRISINSI SALCEATGAD VEEVATAIGM DQRIGNKFLK ASVGFGGSCF QKDVNLVYL CEALNLPEVA RYWQQVIDMN DYQRRRFASR IISLNFNTVT DKKIAILGFA FKKDTGDTRE SSSIYISKYL MDEGAHLHIY DPKVPREQIV VDSLHPGVSA DDQVSRVLT I SKDPYEACDG AHALVICTEW DMFKELDYER IHKKMLKPAF IFDGRRVLDG LHSELQTIGF QIETIGKKVS SKRIPYTPGE IPKFSLQDPP NKKPKV.

Application Note

Specific activity is > 2,500 pmol/min/ug, and is defined as the amount of enzyme that converts 1.0 pmole of UDP-glucose to UDP-glucuronate per minute at pH 8.7 at 37°C.