

Recombinant Human UGDH, His-tagged

Cat. No. UGDH-30103TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human UDP glucose dehydrogenase with an N terminal His tag, ; predicted mwt: ~59.5 kDa;
Species	Human
Source	E.coli
ProteinLength	494 amino acids
Description	The protein encoded by this gene converts UDP-glucose to UDP-glucuronate and thereby participates in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosylated compounds are common components of the extracellular matrix and likely play roles in signal transduction, cell migration, and cancer growth and metastasis. The expression of this gene is up-regulated by transforming growth factor beta and down-regulated by hypoxia. Alternative splicing results in multiple transcript variants.
Conjugation	HIS
Molecular Weight	59.500kDa inclusive of tags
Tissue specificity	Widely expressed.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.1M Sodium fluoride, 20mM Tris HCl, 1mM EDTA, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MRGSHHHHHHGMASMTGGQQMGRDLYDDDDKDRWGSELEMFEIKKICIGAGYV GGPTCSVIAHMCPEIRVTVDVNESRINAWNSPTLPIYEPGLKEVVESCRGKNLFFST NIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYEACARRIVQNSNGYKIVTEKSTV PVRAAESIRRIDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQR AVQALCAVYEHVWPREKILTTNTWSSSELSKLAANAFLAQRISINSISALCEATGADV EEVATAIGMDQRIGNKFLKASVGFGGSCFQKDVNLVYLCEALNLPEVARYWQQVID MNDYQRRRFASRIIDSLFNTVTDKKIAILGFAFKKDTGDTRESSSIYISKYLMDEGAHL HIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEACDGAHAVVICTEWDMPK ELDYERIHKKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIGKKVSSKRIPYAPSGEIPK FSLQDPPNKKPKV
Sequence Similarities	Belongs to the UDP-glucose/GDP-mannose dehydrogenase family.

GENE INFORMATION

Gene Name	UGDH UDP-glucose 6-dehydrogenase [Homo sapiens]
Official Symbol	UGDH
Synonyms	UGDH; UDP-glucose 6-dehydrogenase; UDP glucose dehydrogenase;
Gene ID	7358

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mRNA Refseq	NM_001184701
Protein Refseq	NP_001171630
MIM	603370
Uniprot ID	O60701
Chromosome Location	4p14
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Ascorbate biosynthesis, animals, glucose-1P =>
Function	NAD binding; UDP-glucose 6-dehydrogenase activity; electron carrier activity; oxidoreductase activity;

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