

Recombinant Human UGDH Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UGDH-5978H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGDH MS Standard C13 and N15-labeled recombinant protein (NP_003350) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	55 kDa
AA Sequence	MFEIKKICCGAGYVGGPTCSVIAHMCPEIRVTVDVNESRINAWNSPTLPIYEPGLKE VVESCRGKNLFFSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYEACARRIV QNSNGYKIVTEKSTVPVRAAESIRRFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNP DRVLIGGDETPEGQRAVQALCAVYEHWWPREKILTTNTWSSELSKLAANAFLAQRIS SINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCFQKDVNLNLVYLCEA LNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKIAILGFAFKKDTGDTRES

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SSIIYSKYLMDDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEACD
GAHAVVICTEWDMMFKELDYERIHKKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIGK
KVSSKRIPYAPSGEIPKFSLQDPPNKKPKVTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name UGDH UDP-glucose 6-dehydrogenase [Homo sapiens (human)]

Official Symbol UGDH

Synonyms UGDH; UDP-glucose 6-dehydrogenase; UDP glucose dehydrogenase; UDP-Glc dehydrogenase; UDP-glucose dehydrogenase; uridine diphospho-glucose dehydrogenase; GDH; UGD; UDPGDH; UDP-GlcDH;

Gene ID 7358

mRNA Refseq NM_003359

Protein Refseq NP_003350

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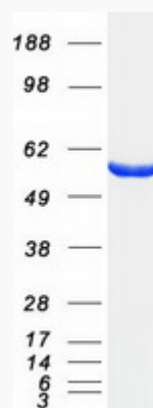
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MIM 603370

UniProt ID O60701

SDS-PAGE



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