

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

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

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | UGDH MS Standard C13 and N15-labeled recombinant protein (NP_003350) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | 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. |
| <b>Molecular Mass</b>   | 55 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MFEIKKICCGAGYVGGPTCSVIAHMCPEIRVTVDVNESRINAWNSPTLPIYEPGLKE<br>VVESCRGKNLFFSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYEACARRIV<br>QNSNGYKIVTEKSTVPVRAAESIRRFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNP<br>DRVLIGGDETPEGQRAVQALCAVYEHWWPREKILTTNTWSSELSKLAANAFLAQRIS<br>SINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCFQKDVNLNLVYLCEA<br>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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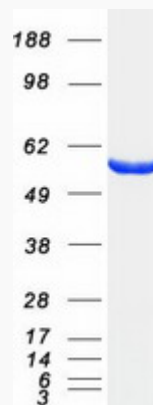
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MIM 603370

UniProt ID O60701

SDS-PAGE



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