

Recombinant Full Length Human UGDH Protein, C-Flag-tagged

Cat. No. UGDH-2072HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UGDH Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	54.8 kDa
AA Sequence	MFEIKKICCGAGYVGGPTCSVIAHMCPEIRVTVDVNESRINAWNSPTLPIYEPGLKE VVESCRGKNLF FSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYIEACARRIV QNSNGYKIVTEKSTVPVRAAESI RRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNP DRVLIGGDETPEGQRAVQALCAVYEHWWPREKILT TNTWSSELSKLAANAFLAQRIS SINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCFQKD VLNLVYLCE ALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKIILGFAFKKDTGDTRE

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SSS IYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEAC
DGAHAVVICTEWD MF KELD YER IHHKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIG
KKVSSKRIPYAPSGEIPKFS LQDPPNK KPKV TRTRPLEQKLISEEDLAANDILDYKDD
DDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Pathways	Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism
Full Length	Full L.

GENE INFORMATION

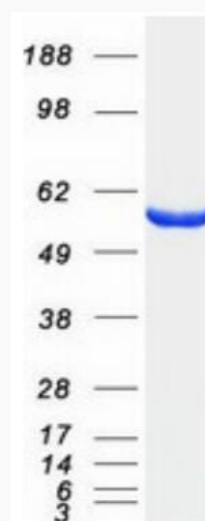
Gene Name	UGDH UDP-glucose 6-dehydrogenase [Homo sapiens (human)]
Official Symbol	UGDH
Synonyms	GDH; UGD; DEE84; EIEE84; UDPGDH; UDP-GlcDH

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Gene ID	7358
mRNA Refseq	NM_003359.4
Protein Refseq	NP_003350.1
MIM	603370
UniProt ID	O60701



Coomassie blue staining of purified UGDH protein.