

Product datasheet for PH302132

UDP glucose dehydrogenase (UGDH) (NM_003359) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UGDH MS Standard C13 and N15-labeled recombinant protein (NP_003350)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202132
Predicted MW:	55 kDa
Protein Sequence:	>RC202132 protein sequence Red=Cloning site Green=Tags(s)

MFEIKKICCGAGYVGGPTCSVIAHMCPEIRVTVVDVNESRINAWNSPTLPIYEPGLKEVVESCRGKNLF
FSTNIDDAIKEADLVFISVNTPTKTYGMKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVRAESI
RRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQRAVQALCAVYEHVWPREKILT
TNTWSSELSKLAANAFLAQRISINSISALCEATGADVEEVATAIGMDQRIGNKFLKASVFGGSCFQKD
VLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKAAILGF AFK KDTGDTRESSS
IYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVS EDDQVSRLVTISKDPYEACDGAHAVVICTEWDMF
KELDYERIHKKMLKPAFIFDGRRLDGLHNELQTIGFQIETIGKKVSSKRIPYAPSGEIPKFSLQDPPNK
KPKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003350
RefSeq Size:	3195
RefSeq ORF:	1482



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Synonyms: DEE84; EIEE84; GDH; UDP-GlcDH; UDPGDH; UGD

Locus ID: 7358

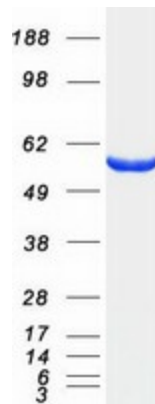
UniProt ID: [O60701](#)

Cytogenetics: 4p14

Summary: 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.[provided by RefSeq, May 2010]

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism

Product images:



Coomassie blue staining of purified UGDH protein (Cat# [TP302132]). The protein was produced from HEK293T cells transfected with UGDH cDNA clone (Cat# [RC202132]) using MegaTran 2.0 (Cat# [TT210002]).