

## Product datasheet for **AR09548PU-N**

### UGDH (1-494, His-tag) Human Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	UGDH (1-494, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM</u> FEIKKICIG AGYVGGPTCS VIAHMCPEIR VTVDVNESR INAWNSPTLP IYEPGLKEV ESCRGKNLFF STNIDDAIKE ADLVFISVNT PTKTYGMGKG RAADLKYIEA CARRIVQNSN GYKIVTEKST VPVRAESIR RIFDANTKPN LNLQVLSNPE FLAEGTAIKD LKNPDRVLIG GDETPAQRA VQALCAVYEH WVPREKILT NTWSSLSKL AANAFLAQRI SSINSISALC EATGADVEEV ATAIGMDQRI GNKFLKASVG FGGSCFQKDV LNLVYLCEAL NLPEVARYWQ QVIDMNDYQR RRFASRIIDS LFNTVTDKKI AILGFAPKGD TGDRESSSI YISKYLMDEG AHLHIYDPKV PREQIVDLS HPGVSEDDQV SRLVTISKDP YEACDGAHAV VICTEWDMPK ELDYERIHKK MLKPAFIFDG RRVLDGLHNE LQTIGFQIET IGKKVSSKRI PYAPSGEIPK FSLQDPPNKK PKV
Tag:	His-tag
Predicted MW:	59.5 kDa
Concentration:	lot specific
Purity:	>95% by SDS – PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1 mM DTT, 0.1M NaCl, and 1 mM EDTA
Bioactivity:	Specific: . One unit will oxidize 1.0 umol of UDP-glucose to UDP-glucuronic acid per minute at pH 8.0 at 25°C. <b>Activity Assay</b> 1. Prepare a 1470 ul assay buffer. The final concentrations are 93mM Tris-Hcl (pH 8.0), 0.2mM UDPG, and 1mM beta-NAD. 2. Add 20 ul of recombinant protein UGDH with 1 ug, 2 ug and 5 ug in assay buffer 3. Mix by inversion and load 200 ul of reaction mix in to a plate well. 4. Record the decrease in A340nm for 5 minutes at 25°C.
Preparation:	Liquid purified protein



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<b>Protein Description:</b>	Recombinant human UGDH protein, fused to his-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
<b>Storage:</b>	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>RefSeq:</b>	<a href="#">NP_001171629</a>
<b>Locus ID:</b>	7358
<b>UniProt ID:</b>	<a href="#">O60701</a>
<b>Cytogenetics:</b>	4p14
<b>Synonyms:</b>	DEE84; EIEE84; GDH; UDP-GlcDH; UDPGDH; UGD
<b>Summary:</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.[provided by RefSeq, May 2010]
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism

### Product images:

