

Product datasheet for AR09548PU-N

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OriGene Technologies, Inc.

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:

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM FEIKKICCIG AGYVGGPTCS VIAHMCPEIR VTVVDVNESR INAWNSPTLP IYEPGLKEVV ESCRGKNLFF STNIDDAIKE ADLVFISVNT

PTKTYGMGKG RAADLKYIEA CARRIVONSN GYKIVTEKST VPVRAAESIR RIFDANTKPN LNLQVLSNPE

FLAEGTAIKD LKNPDRVLIG GDETPEGQRA VQALCAVYEH WVPREKILTT NTWSSELSKL

AANAFLAQRI SSINSISALC EATGADVEEV ATAIGMDQRI GNKFLKASVG FGGSCFQKDV LNLVYLCEAL NLPEVARYWQ QVIDMNDYQR RRFASRIIDS LFNTVTDKKI AILGFAFKKD TGDTRESSSI YISKYLMDEG

AHLHIYDPKV PREQIVVDLS HPGVSEDDQV SRLVTISKDP YEACDGAHAV VICTEWDMFK

ELDYERIHKK MLKPAFIFDG RRVLDGLHNE LQTIGFQIET IGKKVSSKRI PYAPSGEIPK FSLQDPPNKK

PKV

Tag: His-tag Predicted MW: 59.5 kDa Concentration: lot specific

>95% by SDS - PAGE **Purity:**

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

Specific: . One unit will oxidize 1.0 umol of UDP-glucose to UDP-glucuronic acid per minute at **Bioactivity:**

pH 8.0 at 25°C.

Activity Assay

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





UGDH (1-494, His-tag) Human Protein - AR09548PU-N

Protein Description: Recombinant human UGDH protein, fused to his-tag at N-terminus, was expressed in E.coli

and purified by using conventional chromatography techniques.

Storage: 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.

Stability: Shelf life: one year from despatch.

RefSeq: NP 001171629

 Locus ID:
 7358

 UniProt ID:
 060701

 Cytogenetics:
 4p14

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

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

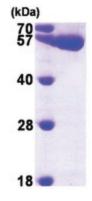
variants.[provided by RefSeq, May 2010]

Protein Pathways: Amino sugar and nucleotide sugar metabolism, Ascorbate and aldarate metabolism,

Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose

metabolism

Product images:



15% SDS-PAGE (3ug)