

uGDH active protein

uGDH, 1-494aa, Human, His tag, E Coli (Bioactivity Validated)

CATALOG # AAA48625	HOST E Coli	APPLICATIONS SDS-Page
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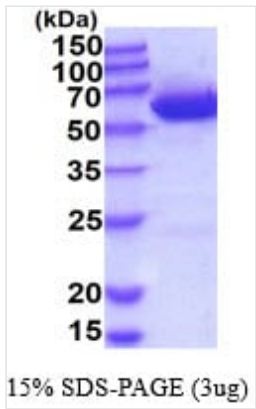
PRODUCT SYNONYMS

uGDH; 1-494aa; Human; His tag; E Coli (Bioactivity Validated); uDP-glucose dehydrogenase; GDH; uDP-GlcDH; uDPGDH; uGD; uDP-glucose 6-dehydrogenase; uGDH active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20mM Tris-HCl Buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl, and 1mM EDTA.
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM FEIKKICIG AGYVGGPTCS VIAHMCPEIR VTVVDVNESR INAWNSPTLP IYEPGLKEVV ESCRGKNLFF STNIDDAIKE ADLVFISVNT PTKTYGMGKG RAADLK YIEA CARRIVQNSN GYKIVTEKST VPVRAAESIR RIFDANTKPN LNLQVLSNPE FLAEGTAIKD LKNPDRVLIG GDETPEGQRA VQALCAVYEH WVPREKILTT NTWSSELSKL AANAFLAQRI SSINSISALC EATGADVEEV ATAIGMDQRI GNKFLKASVG FGGSCFQKDV LNLVYLCEAL NLPEVARYWQ QVIDMNDYQR RRFASRIIDS LFNTVTDKKI AILGF AFKKD TGDRESSSI YISKYLMDEG AHLHIYDPKV PREQIVVDLS HPGVSEDDQV SRLVTISKDP YEACDGAHAV VICTEWD MFK ELDYERIIHK MLKPAFIFDG RRVLDGLHNE LQTIGFQIET IGKKVSSKRI PYAPSGEIPK FSLQDPPNKK PKV
Sequence Length	494
Applicable Applications for uGDH active protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Biological Activity	Specific activity is > 2500 pmol/min/ug, and is defined as the amount of enzyme that convert 1.0pmole of UDP-glucose to UDP-glucuronate per minute at pH 8.7 at 37C.
Preparation and Storage	Can be stored at 4 degree C short term (1-2 weeks). For long term storage, aliquot and store at -20 degree C or -70 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for uGDH active protein	uGDH is a member of the uDP-glucose/GDP-mannose dehydrogenase family and is a ubiquitously expressed protein most abundant in the liver. This protein 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. Recombinant human uGDH protein, fused to his-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques
Product Categories/Family for uGDH active protein	Enzymes & Proteases
References	Bontemps Y., et al. (2003) J Biol Chem. 278 (24):21566-75. ; Vatsyayan J., et al. (2006) Biosci Biotechnol Biochem. 70 (2):401-10. ;

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507813
NCBI GeneID	7358
NCBI Accession #	NP_003350
NCBI GenBank Nucleotide #	NM_003359.3
UniProt Accession #	O60701; O60589; B3KUU2; B4DN25
Molecular Weight	59.5 kDa (533aa) confirmed by MALDI-TOF
NCBI Official Full Name	UDP-glucose 6-dehydrogenase isoform 1
NCBI Official Synonym Full Names	UDP-glucose 6-dehydrogenase
NCBI Official Symbol	UGDH
NCBI Official Synonym Symbols	GDH; UGD; UDPGDH; UDP-GlcDH
NCBI Protein Information	UDP-glucose 6-dehydrogenase
UniProt Protein Name	UDP-glucose 6-dehydrogenase
UniProt Gene Name	UGDH
UniProt Synonym Gene Names	UDP-Glc dehydrogenase; UDP-GlcDH; UDPGDH

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

