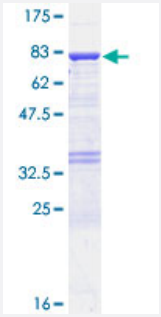
Full-Length

UGDH (Human) Recombinant Protein (P01)

Catalog # H00007358-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human UGDH full-length ORF (NP_003350.1, 1 a.a. - 494 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MFEIKKICCIGAGYVGGPTCSVIAHMCPEIRVTVVDVNESRINAWNSPTLPIYEPGLKEVVESCRGK NLFFSTNIDDAIKEADLVFISVNTPTKTYGMGKGRAADLKYIEACARRIVQNSNGYKIVTEKSTVPVR AAESIRRIFDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDRVLIGGDETPEGQRAVQALCAVYEH WVPREKILTTNTWSSELSKLAANAFLAQRISSINSISALCEATGADVEEVATAIGMDQRIGNKFLKA SVGFGGSCFQKDVLNLVYLCEALNLPEVARYWQQVIDMNDYQRRRFASRIIDSLFNTVTDKKIAILG FAFKKDTGDTRESSSIYISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPY EACDGAHAVVICTEWDMFKELDYERIHKKMLKPAFIFDGRRVLDGLHNELQTIGFQIETIGKKVSSK RIPYAPSGEIPKFSLQDPPNKKPKV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	81.4
Interspecies Antigen Sequence	Mouse (98)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — UGDH

Entrez GeneID	7358
GeneBank Accession#	NM_003359.2
Protein Accession#	NP_003350.1
Gene Name	UGDH
Gene Alias	GDH, UDP-GlcDH, UDPGDH, UGD
Gene Description	UDP-glucose dehydrogenase
Omim ID	603370
Gene Ontology	Hyperlink
Gene 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. [provided by RefSeq
Other Designations	UDP-glucose 6-dehydrogenase|uridine diphospho-glucose dehydrogenase

Pathway

- Amino sugar and nucleotide sugar metabolism
- Ascorbate and aldarate metabolism
- Metabolic pathways
- Pentose and glucuronate interconversions
- Starch and sucrose metabolism

Disease

- Alcoholism