

Active Recombinant Full Length Human UGDH Protein, His tagged

Cat. No. UGDH-729H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UGDH full-length protein (1-494aa), fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography.
Species	Human
Source	E.coli
ProteinLength	1-494 aa
Description	The protein encoded by this gene converts UDP-glucose to UDP-glucuronate, a key component in the biosynthesis of glycosaminoglycans such as hyaluronan, chondroitin sulfate, and heparan sulfate. These glycosaminoglycans are common constituents of the extracellular matrix and play roles in signal transduction, cell migration, and cancer growth and metastasis. The encoded protein is also involved in the detoxification of endogenous and exogenous compounds through the UDP-glucuronosyltransferase pathway. Mutations in this gene are associated with developmental and epileptic encephalopathy. Alternative splicing results in multiple transcript variants.
Form	Liquid
Bio-activity	Specific Activity: > 2500 pmol/min/ug
Molecular Mass	59.5 kDa (533aa including His-tag), confirmed by MALDI-TOF

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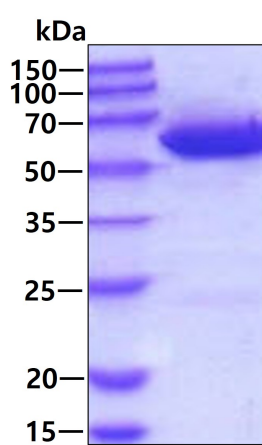
AASequence	FEIKKICCGAGYVGGPTCSVIAHMCPEIRVTVDVNESRINAWNSPTLPIYEPGLKEV VESCRGKNLFFSTNIDDAIKEADLVFISVNTPTKTYGMKGKRAADLKYEACARRIVQ HSNGYKIVTEKSTVPVRAAESIRRIDANTKPNLNLQVLSNPEFLAEGTAIKDLKNPDR VLIGGDETPEGQRAVQALCAVYEHWWPREKILTNTWSSSELSKLAANAFLAQRISIN SISALCEATGADVEEVATAIGMDQRIGNKFLKASVGFGGSCFQKDVNLVYLCEALN LPEVARYWQQVDMNDYQRRRFASRIIDSLFNTVTDKKAILGFAFKKDTGDTRESSSI YISKYLMDEGAHLHIYDPKVPREQIVVDLSHPGVSEDDQVSRLVTISKDPYEACDGA HAVVICTEWDMMFKELDYERIHKKMLKPAFIDGRRVLDGLHNELQTIGFQVETIGKKV SSKRIPYAPSGEIPKFSLQDPPNKKPKV
Purity	> 95% (by SDS-PAGE)
Applications	SDS-PAGE, Enzyme Activity
Storage	+2 to +8 centigrade for 1 week; -20 to -80 centigrade long term. Avoid repeated freeze-thaw cycles.
Concentration	0.5 mg/ml (Bradford assay)
EC	1.1.1.22
CAS	9028-26-6
Unit definition	One unit is defined as the amount of enzyme that converts 1.0 pmol of UDP-glucose to UDP-glucuronate per minute at 37 centigrade, pH 8.7.
Storage Buffer	20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT, 0.1M NaCl, 1mM EDTA

GENE INFORMATION

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Gene Name	UGDH UDP-glucose 6-dehydrogenase [Homo sapiens (human)]
Official Symbol	UGDH
Synonyms	UGDH;UDP-glucose 6-dehydrogenase;UDP-Glc dehydrogenase;UDP-GlcDH;UDPGDH;UGD;GDH;UDP-glucose dehydrogenase;UDP glucose dehydrogenase
Gene ID	7358
mRNA Refseq	NM_003359.4
Protein Refseq	NP_003350.1
MIM	603370
UniProt ID	O60701
SDS-PAGE	

3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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