Recombinant Human UGT1A1 Protein, His-tagged

Cat. No. UGT1A1-56H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UGT1A1 protein with His tag was expressed in yeast.
Species	Human
Source	Yeast
Description	This gene encodes a UDP-glucuronosyltransferase, an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites. This gene is part of a complex locus that encodes several UDP-glucuronosyltransferases. The locus includes thirteen unique alternate first exons followed by four common exons. Four of the alternate first exons are considered pseudogenes. Each of the remaining nine 5' exons may be spliced to the four common exons, resulting in nine proteins with different N-termini and identical C-termini. Each first exon encodes the substrate binding site, and is regulated by its own promoter. The preferred substrate of this enzyme is bilirubin, although it also has moderate activity with simple phenols, flavones, and C18 steroids. Mutations in this gene result in Crigler-Najjar syndromes types I and II and in Gilbert syndrome.
Form	Liquid
Molecular Mass	59 kDa
AA Sequence	HAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIVVLAPDASLYIRDGAFYTLKTYPVPF QREDVKESFVSLGHNVFENDSFLQRVIKTYKKIKKDSAMLLSGCSHLLHNKELMASL

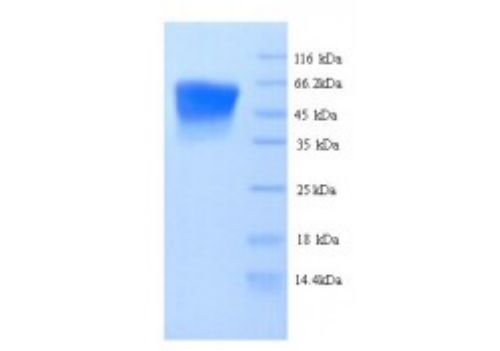
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	AESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHALPCSLEFEATQCPNPFSYVPRPLS SHSDHMTFLQRVKNMLIAFSQNFLCDVVYSPYATLASEFLQREVTVQDLLSSASVWL FRSDFVKDYPRPIMPNMVFVGGINC
Purity	Greater than 90% as determined by SDS-PAGE.
Storage	Store at -20 centigrade. Avoid freeze thaw cycles.
Storage Buffer	20 mM Tris-HCl based buffer, pH 8.0

GENE INFORMATION

Gene Name	UGT1A1
Official Symbol	UGT1A1 UDP glucuronosyltransferase family 1 member A1 [Homo sapiens (human)]
Synonyms	UGT1A1; UDP glucuronosyltransferase family 1 member A1; GNT1; UGT1; UDPGT; UGT1A; HUG-BR1; BILIQTL1; UDPGT 1-1; UDP-glucuronosyltransferase 1-1; UDP glucuronosyltransferase 1 family, polypeptide A1; UDP glycosyltransferase 1 family, polypeptide A1; UDP-glucuronosyltransferase 1-A; DP-glucuronosyltransferase 1A1; UGT-1A; UGT1*1; UGT1-01; UGT1.1; bilirubin UDP-glucuronosyltranserase; bilirubin UDP-glucuronosyltransferase 1-1; bilirubin UDP-glucuronosyltransferase isozyme 1; bilirubin-specific UDPGT isozyme 1; EC 2.4.1.17
Gene ID	54658
mRNA Refseq	NM_000463
Protein Refseq	NP_000454

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MIM	191740
UniProt ID	P22309
Protein SDS-PAGE	

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