

## Recombinant Human UGT1A1 Protein, His-tagged

**Cat. No.** UGT1A1-18H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human uGT1A1(26-490aa), fused with His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	26-490 a.a.
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid
<b>Molecular Mass</b>	54.7kDa (488aa)

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<b>AA Sequence</b>	<p>MGSSHHHHHSSGLVPRGSHMGSHAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIV          VLAPDASLYIRDGAFYTLKTYVPVFQREDVKESFVSLGHNVFENDSFLQRVIKTYKKI          KKDSAMLLSGCSHLLHNKELMASLAESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHA          LPCSLEFEATQCPNPFSYVPRPLSSHSDHMTFLQRVKNMLIAFSQNFLCDVVYSPYA          TLASEFLQREVTVQDLLSSASVWLFRSDFVKDYPRPIMPNMVFVGGINCLHQNPLSQ          EFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLA          NNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAK          RMETKGAGVTNLVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAV          FWVEFVMRHKGAPHLRPAAHDLTWYQYHSLD</p>
<b>Purity</b>	> 90% by SDS - PAGE
<b>Notes</b>	For research use only. This product is not intended or approved for human, diagnostics or veterinary use
<b>Stability</b>	Avoid repeated freezing and thawing cycles.
<b>Storage</b>	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade.
<b>Concentration</b>	1mg/ml (determined by Bradford assay)
<b>Storage Buffer</b>	In 20mM Tris-HCl (pH8.0) containing 10% glycerol

## GENE INFORMATION

<b>Gene Name</b>	UGT1A1
<b>Official Symbol</b>	UGT1A1 UDP glucuronosyltransferase family 1 member A1 [ Homo sapiens (human) ]

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**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-glucuronosyltransferase; 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

**MIM** 191740

**UniProt ID** P22309



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