

Recombinant Human UGT1A1 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human uGT1A1(26-490aa), fused with His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	26-490 a.a.
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	54.7kDa (488aa)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

GENE INFORMATION

Gene Name	UGT1A1
Official Symbol	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