Recombinant Human UGT1A1, MYC/DDK-tagged

Cat. No. UGT1A1-26H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UGT1A1, fused with C-terminal MYC/DDK, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	57.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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

Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	UGT1A1 UDP glucuronosyltransferase 1 family, polypeptide A1 [Homo sapiens (human)]
Official Symbol	UGT1A1
Synonyms	UGT1A1; UDP glucuronosyltransferase 1 family, polypeptide A1; GNT1; UGT1; UDPGT; UGT1A; HUG-BR1; BILIQTL1; UDPGT 1-1; UDP-glucuronosyltransferase 1-1; UDP glycosyltransferase 1 family, polypeptide A1; UDP-glucuronosyltransferase 1-A; UDP-glucuronosyltransferase 1A1; UGT-1A; UGT1*1; UGT1-01; UGT1.1; bilirubin UDP-glucuronosyltransferase 1-1; bilirubin UDP-glucuronosyltransferase isozyme 1; bilirubin-specific UDPGT isozyme 1; NP_000454.1; EC 2.4.1.17
Gene ID	54658
mRNA Refseq	NM_000463
Protein Refseq	NP_000454
MIM	191740
UniProt ID	P22309
Chromosome Location	2q37
Pathway	AhR pathway; Chemical carcinogenesis; Defective GSS causes Glutathione synthetase deficiency (GSS deficiency); Defective MAT1A causes Methionine

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	adenosyltransferase deficiency (MATD)
Function	enzyme binding; enzyme inhibitor activity; NOT glucuronosyltransferase activity; glucuronosyltransferase activity

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