

Recombinant Human UGT1A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UGT1A1-1019H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGT1A1 MS Standard C13 and N15-labeled recombinant protein (NP_000454) with a C-terminal MYC/DDK tag, 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	59.6 kDa
AA Sequence	MAVESQGGRLVLGLLLCVLGPVVS HAGKILLIPVDGSHWLSMLGAIQQLQQRGHEI

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VVLAPDASLYIRDGAFYTLKTYVPVFQREDVKESFVSLGHNVFENDSFLQRVIKTYKK
 IKKDSAMLLSGCSHLLHNKELMASLAESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLH
 ALPCSLEFEATQCPNPFSYVPRPLSSHSDHMTFLQRVKNMLIAFSQNFLCDVVYSPY
 ATLASEFLQREVTVDLLSSASVWLFRSDFVKDYPRPIMPNMVVFVGGINCLHQNP
 QEFAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNL
 ANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNA
 KRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLA
 VFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYR
 KCLGKKGRVKKAHKSKTHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name UGT1A1 UDP glucuronosyltransferase family 1 member A1 [Homo sapiens (human)]

Official Symbol UGT1A1

Synonyms UGT1A1; UDP glucuronosyltransferase 1 family, polypeptide A1; GNT1, UDP glycosyltransferase 1 family, polypeptide A1, UGT1; UDP-glucuronosyltransferase 1-1; UGT1A; UGT-1A; UGT1*1; UGT1.1; UGT1-01; UDP-glucuronosyltransferase 1-A;

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UDP-glucuronosyltransferase 1A1; bilirubin-specific UDPGT isozyme 1; bilirubin UDP-glucuronosyltransferase 1-1; bilirubin UDP-glucuronosyltransferase isozyme 1; UDP glycosyltransferase 1 family, polypeptide A1; GNT1; UGT1; UDPGT; HUG-BR1; BILIQTL1; UDPGT 1-1;

Gene ID 54658

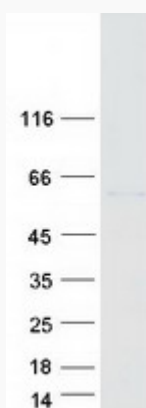
mRNA Refseq NM_000463

Protein Refseq NP_000454

MIM 191740

UniProt ID P22309

SDS-PAGE



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