

Recombinant Human UGT1A10 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UGT1A10-6359H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGT1A10 MS Standard C13 and N15-labeled recombinant protein (NP_061948) 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 enzyme encoded by this gene has glucuronidase activity on mycophenolic acid, coumarins, and quinolines.
Molecular Mass	59.8 kDa
AA Sequence	MARAGWTSPVPLCVCLLLTCGFAEAGKLLVVPMDGSHWFTMQSVVEKLILRGHEVV VVMPEVSWQLERSLNCTVKTYSTSYTLEDQNREFMVFAHAQWKAQAQSIFSLLMSS SSGFLDLFFSHCRSLFNDRKLVEYLKESSFDAVFLDPFDTCLIVAKYFSLPSVVFTR

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GIFCHHLEEGAQCPAPLSYVPNDLLGFSDAMTFKERVWNHIVHLEDHLFCQYLFRNA
LEIASEILQTPVTAYDLYSHTSIWLLRTDFVLDYKPKVMPNMIFIGGINCHQGKPLPME
FEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLAN
NTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPPLFGDQMDNAKR
METKGAGVTNLVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVF
WVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKC
LGKKGRVKKAHKSKTHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 UGT1A10 UDP-glucuronosyltransferase 1A10 [Homo sapiens (human)]

Official Symbol UGT1A10

Synonyms

UGT1A10; UDP glucuronosyltransferase family 1 member A10; GNT1; UGT1;
UDPGT; UGT1A; UGT1J; UGT-1A; UGT-1J; UGT1.1; UGT1A1; UGT1-01; UGT1-10;
UGT1.10; hUG-BR1; UDP-glucuronosyltransferase 1A10; Bilirubin-specific UDPGT
isozyme 1; UDP glucuronosyltransferase 1 family, polypeptide A10; UDP
glycosyltransferase 1 family, polypeptide A10; UDP-glucuronosyltransferase 1-1;
UDP-glucuronosyltransferase 1-10; UDP-glucuronosyltransferase 1-A; UDP-

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glucuronosyltransferase 1-J; UDP-glucuronosyltransferase 1A1; UDPGT 1-1; UDPGT 1-10; EC 2.4.1.17

Gene ID [54575](#)

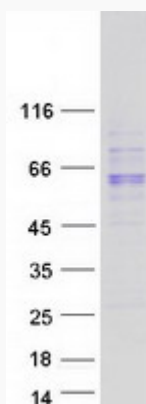
mRNA Refseq [NM_019075](#)

Protein Refseq [NP_061948](#)

MIM [606435](#)

UniProt ID [Q9HAW8](#)

SDS-PAGE



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