# Recombinant Human UGT1A9 Protein, 6×His tagged

**Cat. No.** UGT1A9-01H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human UGT1A9 Protein with 6×His tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 1-487 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 enzyme encoded by this gene is active on phenols. |
| **Molecular Mass** | The protein has a calculated MW of 53 kDa. |
| **AA Sequence** | MGKLLVVPMDGSHWFTMRSVVEKLILRGHEVVVVMPEVSWQLGRSLNCTVKTYST SYTLEDLDREFKAFAHAQWKAQVRSIYSLLMGSYNDIFDLFFSNCRSLFKDKKLVEY LKESSFDAVFLDPFDNCGLIVAKYFSLPSVVFARGILCHYLEEGAQCPAPLSYVPRILL GFSDAMTFKERVRNHIMHLEEHLLCHRFFKNALEIASEILQTPVTEYDLYSHTSIWLL |

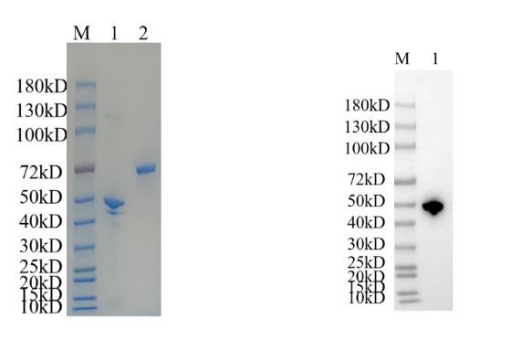
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| | RTDFVLDYPKPVMPNMIFIGGINCHQGKPLPMEFEAYINASGEHGIVVFSLGSMVSEI PEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTILVKWLPQNDLLGHPMTRAFITH AGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDLENAL KAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTW YQYHSLDHHHHHH |
| **Purity** | > 90% by SDS-PAGE |
| **Storage** | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Storage Buffer** | 20 mM Tris, 200 mM NaCl, pH 8.0 |

## GENE INFORMATION

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| **Gene Name** | UGT1A9 UDP glucuronosyltransferase family 1 member A9 [ Homo sapiens (human) ] |
| **Official Symbol** | UGT1A9 |
| **Synonyms** | UGT1A9; UDP glucuronosyltransferase family 1 member A9; LUGP4; UDPGT; UGT1I; HLUGP4; UGT-1I; UGT1-9; UGT1.9; UGT1AI; UGT1-09; UGT1A9S; UDPGT 1-9; UDP-glucuronosyltransferase 1A9; UDP glucuronosyltransferase 1 family, polypeptide A9; UDP glycosyltransferase 1 family, polypeptide A9; UDP-glucuronosyltransferase 1 family polypeptide A9s; UDP-glucuronosyltransferase 1-9; UDP-glucuronosyltransferase 1-I; EC 2.4.1.17 |
| **Gene ID** | 54600 |
| **mRNA Refseq** | NM_021027 |

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| **Protein Refseq** | NP_066307 |
| **MIM** | 606434 |
| **UniProt ID** | P36509 |
| **Reducing 12% SDS-PAGE and WB analysis profile of purified UGT1A9.** | <br>1. UGT1A9<br>2. BSA |

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