

Recombinant Human UGT1A9, GST-tagged

Cat. No. UGT1A9-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UGT1A9(1 a.a. - 530 a.a.), fused with GST-tag at N-terminal, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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	86.3 kDa
AA Sequence	MACTGWTSPPLPCVCLLLTCGFAEAGKLLVPMDSHWFTMRSVVEKLILRGHEVV VVMPEVSWQLGRSLNCTVK TYSTSYTLEDLDREFKAFAHAQWKAQVRSIYSLLMG SYNDIFDLFFSNCRSLFKDKKLVEYLKESSEDAVFLDPF DNCGLIVAKYFSLPSVVFA RGILCHYLEEGAQCPAPLSYVPRILLGFSDAMTFKERVNRNIMHLEEHLCHRRFFK N

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ALEIASEILQTPVTEYDLYSHTSIWLLRTDFVLDYPPKVPMPNMIFIGGINCHQGKPLPM
 EFEAYINASGEHGIV VFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLA
 NNTILVKWLPQNDLLGHPMTRAFITHAGSHGV YESICNGVPMVMMPLFGDQMDNA
 KRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVE PLDLA
 VFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYR
 KCLGKKGRVKKAH KSKTH

Applications ELISA; WB-Re; AP; Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [UGT1A9 UDP glucuronosyltransferase 1 family, polypeptide A9 \[Homo sapiens \(human\) \]](#)

Official Symbol UGT1A9

Synonyms UGT1A9; UDP glucuronosyltransferase 1 family, polypeptide A9; LUGP4; UDPGT; UGT1I; HLUGP4; UGT-1I; UGT1-9; UGT1.9; UGT1AI; UGT1-09; UDPGT 1-9; UDP-glucuronosyltransferase 1-9; UDP glycosyltransferase 1 family, polypeptide A9; UDP-glucuronosyltransferase 1-I; UDP-glucuronosyltransferase 1A9; NP_066307.1; EC 2.4.1.17

Gene ID [54600](#)

mRNA Refseq [NM_021027](#)

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Protein Refseq	NP_066307
MIM	606434
UniProt ID	O60656
Chromosome Location	2q37
Pathway	Arylamine metabolism; Ascorbate and aldarate metabolism; Chemical carcinogenesis; Defective AHCY causes Hypermethioninemia with S-adenosylhomocysteine hydrolase deficiency (HMAHCHD)
Function	enzyme binding; enzyme inhibitor activity; NOT glucuronosyltransferase activity; glucuronosyltransferase activity

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