

Recombinant Human UGT1A6, GST-tagged

Cat. No. UGT1A6-208H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UGT1A6(1 a.a. - 532 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 phenolic and planar compounds. Alternative splicing in the unique 5 end of this gene results in two transcript variants.
Molecular Mass	87.1 kDa
AA Sequence	MACLLRSFQRISAGVFFLALWGMVVGDKLLVVPQDGSHWLSMKDIVEVLSDRGHEI VVVVPEVNNLLKESKYYTR KIYPVPYDQEELKNRYQSFGNNHFAERSFLTAPQTEYR NNMIVIGLYFINCQSLQDRDTLNFFKESKFDALFTD PALPCGVILAEYLG LPSVYLFR

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GFPCSLEHTFSRSPDPVSYIPRCYTKFSDHMTFSQRVANFLVNLEPYLFYCL FSKY
 EELASAVLKRVDIITLYQKVSVWLLRYDFVLEYPVPMPNMVFIGGINCKKRKDL SQ
 EFEAYINASGEHG IVVFSLGSMVSEIPEKKAMATADALGKIPQTVLWRYTGTRPSNL
 ANNTILVKWLPQNDLLGHPMTRAFITHAGSH GVYESICNGVPMVMMPLFGDQMDN
 AKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRP VEPLDL
 AVFWVEFVMRHKGAPHLRPAADLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGY
 RKCLGKKGRVKK AHKSKTH

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 UGT1A6 UDP glucuronosyltransferase 1 family, polypeptide A6 [Homo sapiens]

Official Symbol UGT1A6

Synonyms UGT1A6; UDP glucuronosyltransferase 1 family, polypeptide A6; UDP glycosyltransferase 1 family, polypeptide A6; UDP-glucuronosyltransferase 1-6; GNT1; HLUGP; UGT1F

Gene ID 54578

mRNA Refseq NM_001072

Protein Refseq NP_001063

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MIM	606431
UniProt ID	P19224
Chromosome Location	2q37
Pathway	Ascorbate and aldarate metabolism; Chemical carcinogenesis; Estrogen metabolism
Function	enzyme binding; glucuronosyltransferase activity; NOT glucuronosyltransferase activity

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