Recombinant Human UGT1A6

Cat. No. UGT1A6-31663TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length UGT1A6 protein (Human)
Species	Human
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.
Tissue specificity	Expressed in skin, kidney and liver.
Biological activity	Vial Content: 5 mg protein.concentration: 2-20 mg/mL protein
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 100mM Potassium phosphate, 1mM DTT, 0.1mM EDTA, pH 7.4

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Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	DKLL VVPQDGSHWL SMKDIVEVLS DRGHEIVVVV PEVNLLLKES KYYTRKIYPV PYDQEELKNR YQSFGNNHFA ERSFLTAPQT EYRNNMIVIG LYFINCQSLL QDRDTLNFFK ESKFDALFTD PALPCGVILA EYLGLPSVYL FRGFPCSLEH TFSRSPDPVS YIPRCYTKFS DHMTFSQRVA NFLVNLLEPY LFYCLFSKYE ELASAVLKRD VDIITLYQKV SVWLLRYDFV LEYPRPVMPN MVFIGGINCK KRKDLSQEFE AYINASGEHG IVVFSLGSMV SEIPEKKAMA IADALGKIPQ TVLWRYTGTR PSNLANNTIL VKWLPQNDLL GHPMTRAFIT HAGSHGVYES ICNGVPMVMM PLFGDQMDNA KRMETKGAGV TLNVLEMTSE DLENALKAVI NDKSYKENIM RLSSLHKDRP VEPLDLAVFW VEFVMRHKGA PHLRPAAHDL TWYQYHSLDV IGFLLAVVLT VAFITFKCCA YGYRKCLGKK GRVKKAHKSK TH
Sequence Similarities	Belongs to the UDP-glycosyltransferase family.
Full Length	Full L.

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

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Protein Refseq	NP_001063
MIM	606431
Uniprot ID	P19224
Chromosome Location	2q37
Pathway	Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P =>
Function	enzyme binding; glucuronosyltransferase activity; protein heterodimerization activity; protein homodimerization activity; NOT retinoic acid binding;

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