Recombinant Human UGT1A4, MYC/DDK-tagged

Cat. No. UGT1A4-38H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UGT1A4, fused with C-terminal MYC/DDK, 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. This enzyme has some glucuronidase activity towards bilirubin, although is is more active on amines, steroids, and sapogenins.
Molecular Mass	57 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	UGT1A4 UDP glucuronosyltransferase 1 family, polypeptide A4 [Homo sapiens (human)]
Official Symbol	UGT1A4
Synonyms	UGT1A4; UDP glucuronosyltransferase 1 family, polypeptide A4; UDPGT; UGT1D; UGT-1D; UGT1.4; HUG-BR2; UGT1-04; UDPGT 1-4; UDP-glucuronosyltransferase 1-4; UDP glycosyltransferase 1 family, polypeptide A4; UDP-glucuronosyltransferase 1-D; UDP-glucuronosyltransferase 1A4; bilirubin UDP-glucuronosyltransferase isozyme 2; bilirubin-specific UDPGT isozyme 2; NP_009051.1; EC 2.4.1.17
Gene ID	54657
mRNA Refseq	NM_007120
Protein Refseq	NP_009051
MIM	606429
UniProt ID	P22310
Chromosome Location	2q37
Pathway	AhR pathway; Chemical carcinogenesis; Defective GSS causes Glutathione synthetase deficiency (GSS deficiency); Defective MAT1A causes Methionine adenosyltransferase deficiency (MATD)

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Function	enzyme binding; enzyme inhibitor activity; NOT glucuronosyltransferase activity; glucuronosyltransferase activity

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