Active Recombinant Human UGT1A8 Protein

Cat. No. UGT1A8-99H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UGT1A8 protein without tag was expressed in insect cells.
Species	Human
Source	Insect cells
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 has glucuronidase activity with many substrates including coumarins, phenols, anthraquinones, flavones, and some opioids.
Bio-activity	UGT Activity Data(Unless otherwise stated, all assays are carried out at 37 centigrade in 100 mM Tris-HCl (pH 7.5) containing 5 mM magnesium chloride and 2 mM UDPGA. Alamethicin (10 μg/ml final concentration) is added to kinetics tests only) Substrate: 4-methylumbelliferone Linear with time up to: 30 min(Determined at 300 μM substrate, using a protein concentration of 100 μg/ml)

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	Linear with protein up to: 400 μg/ml(Determined at 300 μM substrate, using an incubation time of 5 min) Vmax: 16227 pmol/min/mg protein Km: 510 μM
Usage	For laboratory (research) purposes only
Storage	Store at -80 centigrade. Avoid frequent temperature changes. Thaw on ice.
Concentration	Protein Concentration: 5 mg/ml
Storage Buffer	25 mM Tris-acetate (pH 7.6), 10% (v/v) glycerol, 1 mM EDTA

GENE INFORMATION

Gene Name	UGT1A8 UDP glucuronosyltransferase family 1 member A8 [Homo sapiens (human)]
Official Symbol	UGT1A8
Synonyms	UGT1A8; UDP glucuronosyltransferase family 1 member A8; GNT1; UGT1; UDPGT; UGT1A; UGT1H; UGT-1A; UGT-1H; UGT1.1; UGT1.8; UGT1A1; UGT1-01; UGT1-08; UGT1A8S; hUG-BR1; UDPGT 1-8; UDP-glucuronosyltransferase 1-8; Bilirubin-specific UDPGT isozyme 1; UDP glucuronosyltransferase 1 family, polypeptide A8; UDP glycosyltransferase 1 family, polypeptide A8; UDP-glucuronosyltransferase 1 family polypeptide A8s; UDP-glucuronosyltransferase 1-1; UDP-glucuronosyltransferase 1-A; UDP-glucuronosyltransferase 1-H; UDP-glucuronosyltransferase 1A1; UDP-glucuronosyltransferase 1A8; UDPGT 1-1
Gene ID	54576

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mRNA Refseq	NM_019076
Protein Refseq	NP_061949
MIM	606433
UniProt ID	Q9HAW9

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