

Active Recombinant Human UGT1A9 Protein

Cat. No. UGT1A9-100H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UGT1A9 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 is active on phenols.
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: 17β-estradiol (3-glucuronide formation) Linear with time up to: 12 min(Determined at 4 µM substrate, using a protein concentration of 25 µg/ml) Linear with protein up to: 20 µg/ml(Determined at 4 µM substrate, using an incubation

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	time of 5 min) Vmax: 10832 pmol/min/mg protein Km: 2.3 μ M
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	UGT1A9 UDP glucuronosyltransferase family 1 member A9 [Homo sapiens (human)]
Official Symbol	UGT1A9
Synonyms	UGT1A9; UDP glucuronosyltransferase family 1 member A9; LUGP4; UDPGT; UGT1I; HLUGP4; UGT-1I; UGT1-9; UGT1.9; UGT1AI; UGT1-09; UGT1A9S; UDPGT 1-9; UDP-glucuronosyltransferase 1-9; UDP glucuronosyltransferase 1 family, polypeptide A9; UDP glycosyltransferase 1 family, polypeptide A9; UDP-glucuronosyltransferase 1 family polypeptide A9s; UDP-glucuronosyltransferase 1-I; UDP-glucuronosyltransferase 1A9
Gene ID	54600
mRNA Refseq	NM_021027
Protein Refseq	NP_066307

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MIM	606434
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UniProt ID	O60656
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