

Active Recombinant Human UGT1A3 Protein

Cat. No. UGT1A3-98H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UGT1A3 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. Substrates of this enzyme include estrone, 2-hydroxyestrone, and metabolites of benzo alpha-pyrene.
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: 20 min(Determined at 20 µM substrate, using a protein concentration of 500 µg/ml) Linear with protein up to: 500 µg/ml(Determined at 20 µM substrate, using an

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	incubation time of 20 min) Vmax: 168 pmol/min/mg protein S50: 20 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	UGT1A3 UDP glucuronosyltransferase family 1 member A3 [Homo sapiens (human)]
Official Symbol	UGT1A3
Synonyms	UGT1A3; UDP glucuronosyltransferase family 1 member A3; UDPGT; UGT1C; UGT-1C; UGT1.3; UGT1-03; UGT1A3S; UDPGT 1-3; UDP-glucuronosyltransferase 1A3; UDP glucuronosyltransferase 1 family, polypeptide A3; UDP glycosyltransferase 1 family, polypeptide A3; UDP-glucuronosyltransferase 1 family polypeptide A3s; UDP-glucuronosyltransferase 1-3; UDP-glucuronosyltransferase 1-C; UDP-glucuronosyltransferase 1A; UGT1*3
Gene ID	54659
mRNA Refseq	NM_019093
Protein Refseq	NP_061966

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MIM	606428
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UniProt ID	P35503
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