

Recombinant Human UGT1A3

Cat. No. UGT1A3-207H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human UGT1A3, fused without tag, was expressed in wheat germ.
Species	Human
Source	Wheat Germ
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.
Form	Liquid
Molecular Mass	58.8 kDa
AA Sequence	MATGLQVPLPWLATGLLLLLSVQPWAESGKVLVVPIDGSHWLSMREVLRELHARGH QAVVLTPEVNMHIKEENFF TLTTYAISWTQDEFDRHVLGHTQLYFETEHFLKKFFRS MAMLNMSLVYHRSCVELLHNEALIRHLNATSFDVVL TDPVNLCAAVLAKYLSIPTV FFLRNIPCDLDFKGTQCPNPSSYIPRLTTNSDHMTFMQRVKNMPLYPLALSYICH AF

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SAPYASLASELFQREVSVVDILSHASVWLFRGDFVMDYPRPIMPNMVFIGGINCANR
KPLSQEFEAYINASGE HGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTR
PSNLANNTILVKWLPQNDLLGHPMTRAFITHAG SHGVYESICNGVPMVMMPLFGDQ
MDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKD RPVE
PLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCC
AYGYRKCLGKKGRV KKAHKS KTH

Applications Antibody Production; Functional Study; Compound Screening

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name [UGT1A3 UDP glucuronosyltransferase 1 family, polypeptide A3 \[Homo sapiens \(human\) \]](#)

Official Symbol UGT1A3

Synonyms UDP glucuronosyltransferase 1 family, polypeptide A3; UDPGT 1-3; UGT1C; EC 2.4.1.17; UDP glycosyltransferase 1 family, polypeptide A3; OTTHUMP00000065199; UGT-1C; UDPGT; UGT1*3; UDP glucuronosyltransferase 1A3; UGT1-03; UDP-glucuronosyltransferase 1-3; UGT1.3; GNT1; UDP-glucuronosyltransferase 1-C; UGT1; UDP-glucuronosyltransferase 1A3; OTTHUMP00000065193

Gene ID [54659](#)

mRNA Refseq [NM_019093](#)

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Protein Refseq	NP_061966
MIM	606428
UniProt ID	Q5DT01
Chromosome Location	2q37
Pathway	Ascorbate and aldarate metabolism; Drug metabolism - cytochrome P450; Metabolic pathways
Function	enzyme binding; glucuronosyltransferase activity; protein heterodimerization activity

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