

Recombinant Full Length Human UGT1A3 Protein

Cat. No. UGT1A3-539HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human UGT1A3, fused without tag, was expressed in wheat germ.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	534 amino acids
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	MATGLQVPLP WLATGLLLLL SVQPWAESGK VLVVPIDGSH WLSMREVLRE

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LHARGHQAVV LTPEVNMHIK EENFFTLTTY AISWTQDEFD RHVLGHTQLY
 FETEHFLKKF FRSMAMLNNM SLVYHRSCVE LLHNEALIRH LNATSFDDVL
 TDPVNLCAAV LAKYLSIPTV FFLRNIPCDL DFKGTQCPNP SSIYPRLLTT
 NSDHMTFMQR VKNMLYPLAL SYICHAFSAP YASLASELFQ REVSVDILS
 HASVWLFRGD FVMDYPRPIM PNMVFIGGIN CANRKPLSQE FEAYINASGE
 HGIVVFSLGS MVSEIPEKKA MAIADALGKI PQTVLWRYTG TRPSNLANNT
 ILVKWLPQND LLGHPMTRAF ITHAGSHGVY ESICNGVPMV MMPLFGDQMD
 NAKRMETKGA GVTNLVLEMT SEDLENALKA VINDKSYKEN IMRLSSLHKD
 RPVEPLDLAV FWVEFVMRHK GAPHLRPAAH DLTWYQYHSL DVIGFLLAVV
 LTVAFITFKC CAYGYRKCLG KKGRVKKAHK SKTH

Applications Antibody Production; Functional Study; Compound Screening

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

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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mRNA Refseq	NM_019093
Protein Refseq	NP_061966
MIM	606428
UniProt ID	Q5DT01

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