

Recombinant Human UGT1A7

Cat. No. UGT1A7-31664TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length UGT1A7 protein (Human)
Species	Human
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 moderate glucuronidase activity with phenols.
Tissue specificity	Liver and gastric tissue.
Biological activity	Vial Content: 5 mg protein.concentration 2-20 mg/mL protein
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 100mM Potassium phosphate, 1mM DTT, 0.1mM EDTA, pH 7.4
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids

MARAGWTGLLPLYVCLLLTCGFAKAGKLLVVPMDGSHWFT MQSVVEKLILRGHEV
 VVMPEVSWQLGRSLNCTVKTYSTS YTLEDQDREFMVFADARWTAPLRSFSLT
 SSSNGIFDLF FSNCRSLFNDRKLVEYLKESCFDAVFLDPFDACGLIVAKY FSLPSVV
 FARGIFCHYLEEGAQCPAPLSYVPRLLLGFSDA MTFKERVWNHIMHLEEHLCOPYFF
 KNVLEIASEILQTPVT AYDLYSHTSIWLLRTDFVLEYPKPVMNPMIFIGGINCHQG KP
 VPMEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIA DALGKIPQTVLWRYTGTRP
 SNLANNTILVKWLPQNDLLGH PMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQ
 MDNAKR METKGAGVTNLNLEMTSEDLENALKAVINDKSYKENIMRL SSLHKDRPVE
 PLDLAVFWVEFVMRHKGAPHLRPAAHDLTW YQYHSLDVIGFLLAVVLTVAFITFKCC
 AYG YRKCLGKKGR VKKAHKS KTH

Sequence Similarities

Belongs to the UDP-glycosyltransferase family.

Full Length

Full L.

GENE INFORMATION

Gene Name

UGT1A7 UDP glucuronosyltransferase 1 family, polypeptide A7 [Homo sapiens]

Official Symbol

UGT1A7

Synonyms

UGT1A7; UDP glucuronosyltransferase 1 family, polypeptide A7; UDP glycosyltransferase 1 family, polypeptide A6; UDP-glucuronosyltransferase 1-7; UGT1G;

Gene ID

54577

mRNA Refseq

NM_019077

Protein Refseq

NP_061950

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MIM	606432
Uniprot ID	Q9HAW7
Chromosome Location	2q37
Pathway	Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P =>
Function	drug binding; enzyme binding; enzyme inhibitor activity; glucuronosyltransferase activity; protein heterodimerization activity;

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