

Recombinant Full Length Human UGT1A8 Protein, C-Flag-tagged

Cat. No. UGT1A8-1859HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human UGT1A8 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian 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 has glucuronidase activity with many substrates including coumarins, phenols, anthraquinones, flavones, and some opioids.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	57.1 kDa
AA Sequence	MARTGWTSPILCVSLLLTGFAEAGKLLVVPMDGSHWFTMQSVVEKLILRGHEVV

 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

VVMPEVSWQLGKSL NCTVKTYSTSYTLEDLDREFMDFADAQWKAQVRSLSLFLS
SSNGFFNLFFSHCRSLFNDRKLVEYLKES SFDVFLDPFDACGLIVAKYFSLPSVVF
ARGIACHYLEEGAQCPAPLSYVPRILLGFSDAMTFKERVERNH IMHLEEHLCQYFSK
NALEIASEILQTPVTAYDLYSHTSIWLLRTDFVLDYKPKVMPNMIFIGGINCHQG KPLP
MEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNL
ANNTILVK WLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDN
AKRMETKGAGVTNLVLEMTSEDL ENALKAVINDKSYKENIMRLSSLHKDRPVEPLDL
AVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVIG FLLAVVLTVAFITFKCCAYG
YRKCLGKKGRVKKAHKSKTH TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Protein Pathways	Androgen and estrogen metabolism, Ascorbate and aldarate metabolism, Drug metabolism - cytochrome P450, Drug metabolism - other enzymes, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Pentose and glucuronate interconversions, Porphyrin and chlorophyll metabolism, Retinol metabolism, Starch and sucrose metabolism

Full Length
Full L.

GENE INFORMATION

Gene Name

UGT1A8 UDP glucuronosyltransferase family 1 member A8 [Homo sapiens (human)]

Official Symbol

UGT1A8

Synonyms

GNT1; UGT1; UDPGT; UGT1A; UGT1H; UGT-1A; UGT-1H; UGT1.1; UGT1.8; UGT1A1; UGT1-01; UGT1-08; UGT1A8S; hUG-BR1; UDPGT 1-1; UDPGT 1-8

Gene ID

54576

mRNA Refseq

NM_019076.5

Protein Refseq

NP_061949.3

MIM

606433

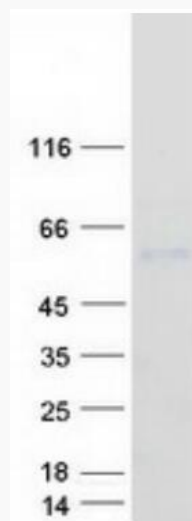
UniProt ID

Q9HAW9

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Coomassie blue staining of purified UGT1A8 protein.

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