

Product datasheet for **TP314521M**

UGT1A8 (NM_019076) Human Recombinant Protein

Product data:

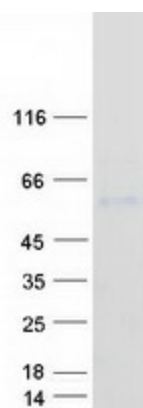
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|---------------------------------------|---|
| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human UDP glucuronosyltransferase 1 family, polypeptide A8 (UGT1A8), 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC214521 representing NM_019076 Red =Cloning site Green =Tags(s) MARTGWTSPIPLCVSLLLTGFAEAGKLLVPMGSHWFTMQSVWEKLLIRGHEVWVMPVSWQLGKSL NCTVKTYSTSYTLEDLDREFMDFADAQWKAQVRSLSLFLSSSNGFFNLFFSHCRSLFNDRKLVEYLKES SFDVFLDPFDACGLIVAKYFSLPSVVFARGIACHYLEEGAQCPAPLSYVPRILLGFSAMTFKERVERNH IMHLEEHLCQYFSKNALEIASEILQTPVTAYDLYSHTSIWLLRTDFVLDYPKPVMNMFIFIGGINCHQG KPLPMEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIAADALGKIPQTVLWRYTGTRPSNLANTILVK WLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDL ENALKAVINDKSYKENIMRSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLDVG FLLAWLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 57.1 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |
| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |



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| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_061949 |
| Locus ID: | 54576 |
| UniProt ID: | Q9HAW9 , Q5DSZ6 |
| RefSeq Size: | 2396 |
| Cytogenetics: | 2q37.1 |
| RefSeq ORF: | 1590 |
| Synonyms: | GNT1; hUG-BR1; UDPGT; UDPGT 1-1; UDPGT 1-8; UGT-1A; UGT-1H; UGT1; UGT1-01; UGT1-08; UGT1.1; UGT1.8; UGT1A; UGT1A1; UGT1A8S; UGT1H |
| Summary: | 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. [provided by RefSeq, Jul 2008] |
| 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 |

Product images:



Coomassie blue staining of purified UGT1A8 protein (Cat# [TP314521]). The protein was produced from HEK293T cells transfected with UGT1A8 cDNA clone (Cat# [RC214521]) using MegaTran 2.0 (Cat# [TT210002]).