

Product datasheet for **TP313439M**

UGT (UGT1A1) (NM_000463) Human Recombinant Protein

Product data:

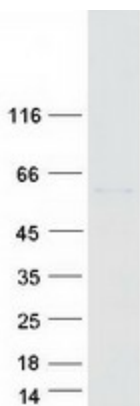
Product Type:	Recombinant Proteins
Description:	Recombinant protein of human UDP glucuronosyltransferase 1 family, polypeptide A1 (UGT1A1), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213439 protein sequence Red =Cloning site Green =Tags(s)
	<p>MAVESQGGRLVLGLLLCVLPVWSHAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIWLAPDASLYIRD GAFYTLKTYVPVFPQREDVKESFVSLGHNVFENDSFLQRVIKTYKKIKKDSAMLLSGCSHLLHNKELMASL AESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHALPCSLEFEATQCPNPFVPRPLSSHSDHMTFLQRV KNMLIAFSQNFCLDVVYSPYATLASEFLQREVTVDLLSSASVWLFVDFVFDYPRPIMPNMVFGGINC LHQNPLSQEFAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANNTI LVKWLQPNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPVDFGDMQMDNAKRMETKGAGVTLNVLEMST EDLENALKAVINDKSYKENIMRSSLHKDRPVEPLDAVFWVEFVMRHKGAPHLRPAAHDLTWYQYHSLD VIGFLLAVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
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_000454
Locus ID:	54658
UniProt ID:	P22309 , Q5DT03
RefSeq Size:	2357
Cytogenetics:	2q37.1
RefSeq ORF:	1599
Synonyms:	BILIQTL1; GNT1; HUG-BR1; UDPGT; UDPGT 1-1; UGT1; UGT1A
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 preferred substrate of this enzyme is bilirubin, although it also has moderate activity with simple phenols, flavones, and C18 steroids. Mutations in this gene result in Crigler-Najjar syndromes types I and II and in Gilbert syndrome. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, 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 UGT1A1 protein (Cat# [TP313439]). The protein was produced from HEK293T cells transfected with UGT1A1 cDNA clone (Cat# [RC213439]) using MegaTran 2.0 (Cat# [TT210002]).