

Product datasheet for PH314521

UGT1A8 (NM_019076) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UGT1A8 MS Standard C13 and N15-labeled recombinant protein (NP_061949)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214521
Predicted MW:	57.1 kDa
Protein Sequence:	>RC214521 representing NM_019076 Red=Cloning site Green=Tags(s)

MARTGWTSP IPLCVSLLLTGCGFAEAGKLLVVPMDGSHWFTMQSVVEKLIILRGHEVVVMPEVSWQLGKSL
NCTVKTYSTSYTLEDLDREFMDFADAQWKAQVRSLSLFLSSSNGFFNLFFSHCRSLFNDRKLVEYLKES
SFDAVFLDPFDACGLIVAKYFSLPSVVFARGIACHYLEEGAQCPAPLSYVPRILLGFSDAMTFKERVNH
IMHLEEHLFCQYFSKNALEIASEILQTPVTAYDLYSHTSIWLLRTDFVLDYPKPMPNMIFIGGINCHQG
KPLPMEFEAYINASGEHGIVVFSLGSVMSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANTILVK
WLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTLNVLEMTSEDL
ENALKAVINDKSYKENIMRLLSLHKDRPVEPLD LAVFWVEFVMRHKGAPHLRPA AHDLTWYQYHSLDVI
G FLLAVVLTVAFITFKCCAYGYRCLGKKGGRVKKAHKSKTH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_061949</u>
RefSeq Size:	2396
RefSeq ORF:	1590



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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

Locus ID: 54576

UniProt ID: [Q9HAW9](#), [Q5DSZ6](#)

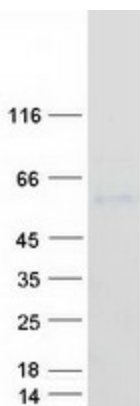
Cytogenetics: 2q37.1

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]).