

Product datasheet for PH316266

UGT1A3 (NM_019093) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UGT1A3 MS Standard C13 and N15-labeled recombinant protein (NP_061966)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216266
Predicted MW:	57.3 kDa
Protein Sequence:	>RC216266 representing NM_019093 Red=Cloning site Green=Tags(s)

MATGLQVPLPWLATGLLLLLSVQPWAESGKVLVVPIDGSHWLSMREVLRELHARGHQAVVLTPEVNMHIK
EENFFTLTTYAISWTQDEFDRHVLGHTQLYFETEHLKFFRSMAMLNMSLVYHRSCVELLHNEALIRH
LNATSFVVLTPVNLCAAVLAKYLSIPTVFFLRNIPCDLDFKGTQCPNPSSYIPRLTTNSDHMTFMQR
VKNMLYPLALSYICHAFSAPYASLASELFQREVSVDILSHASVWVFRGDFVMDYPRPIMPNMVFIGGIN
CANRKPLSQEFEAYINASGEHGVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPSNLANN
ILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMPLFGDQMDNAKRMETKGAGVTLNVLEMT
SEDLLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVFWVEFVMRHKGAPHLRPAHADLTWYQYHSL
DVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVKKAHKSKTH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_061966</u>
RefSeq Size:	2345
RefSeq ORF:	1602



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Synonyms: UDPGT; UDPGT 1-3; UGT-1C; UGT1-03; UGT1.3; UGT1A3S; UGT1C

Locus ID: 54659

UniProt ID: [Q5DT01](#), [P35503](#)

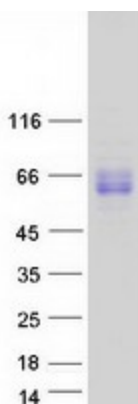
Cytogenetics: 2q37.1

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. Substrates of this enzyme include estrone, 2-hydroxyestrone, and metabolites of benzo alpha-pyrene. [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 UGT1A3 protein (Cat# [TP316266]). The protein was produced from HEK293T cells transfected with UGT1A3 cDNA clone (Cat# [RC216266]) using MegaTran 2.0 (Cat# [TT210002]).