

Recombinant Human UGT1A3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. UGT1A3-3375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	UGT1A3 MS Standard C13 and N15-labeled recombinant protein (NP_061966) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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. Substrates of this enzyme include estrone, 2-hydroxyestrone, and metabolites of benzo alpha-pyrene.
Molecular Mass	57.3 kDa
AA Sequence	MATGLQVPLPWLATGLLLLLSVQPWAESGKVLVVPIDGSHWLSMREVLRELHARGH QAVVLTPEVNMHIKEENFFTLTTYAISWTQDEFDRHVLGHTQLYFETEHFLKKFFRS MAMLNMSLVYHRSCVELLHNEALIRHLNATSFDDVLTDPVNLCAAVLAKYLSIPTVF

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FLRNIPCDLDFKGTQCPNPSSYIPRLTTNSDHMTFMQRVKNMLYPLALSYICHAFA
 PYASLASELFQREVSVVDILSHASVWLFRGDFVMDYPRPIMPNMVFIGGINCANRKP
 LSQFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAIADALGKIPQTVLWRYTGTRPS
 NLANNTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMD
 NAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLD
 LAVFWVEFVMRHKGAPHLRPAADLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYG
 YRKCLGKKGRVKKAHKSKTHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name UGT1A3 UDP glucuronosyltransferase family 1 member A3 [Homo sapiens (human)]

Official Symbol UGT1A3

Synonyms UGT1A3; UDP glucuronosyltransferase 1 family, polypeptide A3; UDP glycosyltransferase 1 family, polypeptide A3; UDP-glucuronosyltransferase 1-3; UGT1C; UGT1*3; UDP glucuronosyltransferase 1A3; UDP-glucuronosyltransferase 1-C; UDP-glucuronosyltransferase 1A3; UDPGT; UGT-1C; UGT1.3; UGT1-03; UDPGT 1-3;

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Gene ID	54659
mRNA Refseq	NM_019093
Protein Refseq	NP_061966
MIM	606428
UniProt ID	P35503
SDS-PAGE	