

Product datasheet for PH317262

UGT2A1 (NM_006798) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UGT2A1 MS Standard C13 and N15-labeled recombinant protein (NP_006789)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC217262
Predicted MW:	59.7 kDa
Protein Sequence:	>RC217262 representing NM_006798 Red=Cloning site Green=Tags(s)

MLNLLLLFSLQISLIGTTLGGNVLWPMEGSHLNVKIIIDELIKKEHNVTVLVASGALFITPTSNPSLT
FEIYKVPFGKERIEGVIKDFVSTWLENRSPSTIWRFYQEMAKVIKDFHMVSQEICDGVLKNQQLMAKLK
KSKFEVLVSDPVFPCGDI VALKLGIPFMYSLRFSPASTVEKHCGKVPYPPSYVPAVLSLTDQMSFTDRI
RNFISYHLQDYMFETLWKSWSYYSKALGRPTTLCETMGKAEIWLIRTYWDFEFPRPYLPNFEFVGGGLHC
KPAKPLPKEMEEFIQSSGKNGVVVSLGSMVKNL TEEKANLIASALAQIPQKVLWRYKGGK PATLGNNTQ
LFDWIPQNDLLGHPKTKAFITHGGTNGIYEAIYHGVPVGVPMFADQPDNIAHMKAKGAAVEVNLNTMTS
VDLLSALRTVINEPSYKENAMRLSRIHHDQPVKPLDRAVFWIEFVMRHKGAKHLRVAADLTLWFQYHSLD
VIGFLLVCVTTAIFLVIQCCLFSCQKFGKIGKKKKRE

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- 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_006789</u>
RefSeq Size:	1766
RefSeq ORF:	1581



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Synonyms: UDPGT2A1

Locus ID: 10941

UniProt ID: [Q9Y4X1](#)

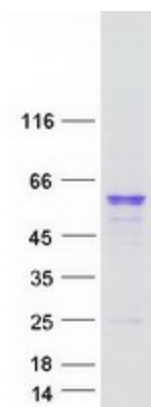
Cytogenetics: 4q13.3

Summary: The protein encoded by this gene belongs to the UDP-glycosyltransferase family, members of which catalyze biotransformation reactions in which lipophilic substrates are conjugated with glucuronic acid to increase water solubility and enhance excretion. They are of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This enzyme is expressed in the olfactory neuroepithelium, which lines the posterior nasal cavity and is exposed to a wide range of odorants and airborne toxic compounds. Hence, this protein has been suggested to be involved in clearing lipophilic odorant molecules from the sensory epithelium. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. This gene shares exon structure with the UDP glucuronosyltransferase 2A2 family member, which encodes N-terminally distinct isoforms. [provided by RefSeq, Jul 2014]

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 UGT2A1 protein (Cat# [TP317262]). The protein was produced from HEK293T cells transfected with UGT2A1 cDNA clone (Cat# [RC217262]) using MegaTran 2.0 (Cat# [TT210002]).