

Proteoliposomes

Full-Length

UGT1A3 (Human) Recombinant Protein

Catalog # H00054659-G01

Size 2 ug

Specification

Product Description

Human UGT1A3 full-length ORF (AAI66641.1) recombinant protein without tag.
This product is belong to Proteoliposome (PL).

Sequence

MATGLQVPLPWLATGLLLLLSVQPWAESGKVLVVPIDGSHWLSMREVLRELHARGHQAVVLTPE
VNMHIKEENFFTLTTYAISWTQDEFDRHVLGHTQLYFETEHFLKKFFRSMAMLNMSLVYHRSCVE
LLHNEALIRHLNATSFDDVLTDPVNLCAAVLAKYLSIPTVFFLRNIPCDLDFKGTQCPNPSSYIPRL
TTNSDHMTFMQRVKNMPLYPLALSYICAFSAPYASLASELFQREVSVVDILSHASVWLFRGDFVM
DYPRPIMPNMVFIGGINCANRKPLSQEFEAYINASGEHGIVVFSLGSMVSEIPEKKAMAADALGKIP
QTVLWRYTGTRPSNLANTILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFG
DQMDNAKRMETKGAGVTNLVLEMTSEDLENALKAVINDKSYKENIMRLSSLHKDRPVEPLDLAVF
WVEFVMRHKGAPHLRPAHDLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGRVK
KAHKSKTH

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

58.8

Interspecies Antigen Sequence

Mouse (75); Rat (77)

Form

Liquid

Preparation Method

[in vitro wheat germ expression system with proprietary liposome technology](#)

Purification

None

Recommend Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

Storage Buffer

25 mM Tris-HCl of pH8.0 containing 2% glycerol.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Antibody Production

Gene Info — UGT1A3

Entrez GeneID [54659](#)

GeneBank Accession# [BC166641.1](#)

Protein Accession# [AAI66641.1](#)

Gene Name UGT1A3

Gene Alias UGT1C

Gene Description UDP glucuronosyltransferase 1 family, polypeptide A3

Omim ID [606428](#)

Gene Ontology [Hyperlink](#)

Gene 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]

Other Designations OTTHUMP00000065193|UDP glucuronosyltransferase 1A3|UDP glycosyltransferase 1 family, polypeptide A3|UDP-glucuronosyltransferase

Pathway

- [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](#)

Disease

- [Adenomatous Polyposis Coli](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)
- [Colon cancer](#)
- [Diabetes Mellitus](#)
- [Drug-Induced Liver Injury](#)
- [Duodenal Neoplasms](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Gilbert Disease](#)
- [Hearing Loss](#)
- [Hyperbilirubinemia](#)
- [Liver Neoplasms](#)