# Recombinant human Glucuronosyltransferase 1A1/UGT1A1 protein

Catalog Number: ATGP3014

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
26-490aa

**UniProt No.**
P22309

**NCBI Accession No.**
NP_000454

**Alternative Names**
uDP-glucuronosyltransferase 1-1, uDP-glucuronosyltransferase 1-1, BILIQTL1, GNT1, HuG-BR1, uDPGT, uDPGT 1-1, uGT1, uGT1A

## PRODUCT SPECIFICATION

**Molecular Weight**
54.7 kDa (488aa)

**Concentration**
1mg/ml (determined by Bradford assay)

**Formulation**
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

**Purity**
> 90% by SDS-PAGE

**Tag**
His-Tag

**Application**
SDS-PAGE,Denatured

**Storage Condition**
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**
uGT1A1 also known as uDP-glucuronosyltransferase 1-1. uGT1A1 is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. It is also able to catalyze glucuronidation of 17beta-estradiol, 17alpha-ethinylestradiol, 1-hydroxypyrene, 4-methylumbelliferone, 1-naphthol, paranitrophenol, scopoletin, and umbelliferone. Recombinant human uGT1A1, fused to His-tag at N-terminus, was expressed in E. coli.

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**Amino acid Sequence**

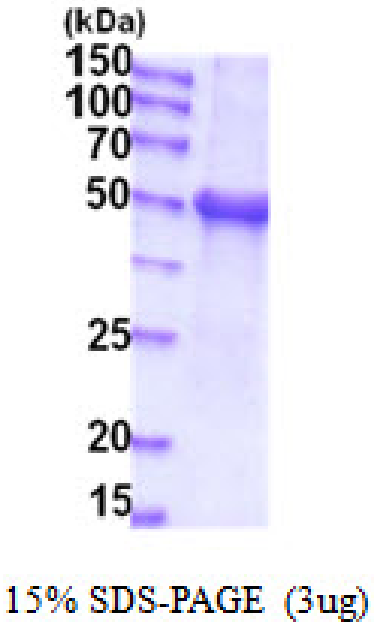
MGSSHHHHHH SSGLVPRGSH MGSHAGKILL IPVDGSHWLS MLGAIQQLQQ RGHEIVVLAP DASLYIRDGA FYTLKTYPVP FQREDVKESF VSLGHNVFEN DSFLQRVIKT YKKIKKDSAM LLSGCSHLLH NKELMASLAE SSFDVMLTDP FLPCSPIVAQ YLSLPTVFFL HALPCSLEFE ATQCPNPFSY VPRPLSSHSD HMTFLQRVKN MLIAFSQNFL CDVVYSPYAT LASEFLQREV TVQDLLSSAS VWLFRSDFVK DYPRPIMPNM VFVGGINCLH QNPLSQEFEA YINASGEHGI VVFSLGSMVS EIPEKKAMAI ADALGKIPQT VLWRYTGTRP SNLANNTILV KWLPQNDLLG HPMTRAFITH AGSHGVYESI CNGVPMVMMP LFGDQMDNAK RMETKGAGVT LNVLEMTSED LENALKAVIN DKSYKENIMR LSSLHKDRPV EPLDLAVFWV EFVMRHKGAP HLRPAAHDLT WYQYHSLD

**General References**

udomuksorn W., et al. (2007) Pharmacogenet. Genomics 17:1017-1029

## DATA

**SDS-PAGE**




15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.