

# Recombinant Homo sapiens UDP-glucuronosyltransferase 1-1

Catalog No: #AP72835

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Package Size: #AP72835-1 20ug #AP72835-2 100ug #AP72835-3 1mg

## Description

Product Name	Recombinant Homo sapiens UDP-glucuronosyltransferase 1-1
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:26-533aaSequence Info:Full Length
Other Names	Bilirubin-specific UDPGT isozyme 1 ;hUG-BR1UDP-glucuronosyltransferase 1-A ;UGT-1A ;UGT1AUDP-glucuronosyltransferase 1A1
Accession No.	P22309
Uniprot	P22309
GeneID	54658;
Calculated MW	59.1 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	HAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIVVLAPDASLYIRDGAFYTLKTYVPPFQREDVKESFVSLGHNV FENDSFLQRVIKTYKKIKKDSAMLLSGCSHLLHNKELMASLAESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHA LPCSLEFEATQCPNPFYSYVPRPLSSHSDHMTFLQRVKNMILAFSQNFLCDVVYSPYATLASEFLQREVTVQDL LSSASVWLFERSDFVKDYPRPIMPNMVFGGINCLHQNPLSQEFEAYINASGEHGIVVFSLGSVMSEIPEKKAM AIADALGKIPQTVLWRYTGTRPSNLANNLILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMP FGDQMDNAKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRSSLHKDRPVEPLDLAVFWVEFV MRHKGAPHLRPAADLTWYQYHSLDVIGFLLAVVLTVAFITFKCCAYGYRKCLGKKGKRVKKAHKSATH
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.  Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

UDPGT is of major importance in the conjugation and subsequent elimination of potentially toxic xenobiotics and endogenous compounds. This isoform glucuronidates bilirubin IX-alpha to form both the IX-alpha-C8 and IX-alpha-C12 monoconjugates and diconjugate. Is also able to catalyze the glucuronidation of 17beta-estradiol, 17alpha-ethinylestradiol, 1-hydroxypyrene, 4-methylumbelliferone, 1-naphthol, paranitrophenol, scopoletin, and umbelliferone. Isoform 2 lacks transferase activity but acts as a negative regulator of isoform 1.

## References

Thirteen UDP-glucuronosyltransferase genes are encoded at the human UGT1 gene complex locus.Gong Q.H., Cho J.W., Huang T., Potter C., Gholami N., Basu N.K., Kubota S., Carvalho S., Pennington M.W., Owens I.S., Popescu N.C.Pharmacogenetics 11:357-368(2001)Research

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Note: This product is for in vitro research use only