

Active Recombinant Human UDP Glucuronosyltransferase 1 Family, Polypeptide A1

Cat. No. UGT1A1-1118H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human UGT1A1 (NP_000454, 1 a.a. ~ 154 a.a.) partial recombinant protein expressed in Escherichia coli.
Species	Human
Source	Human
Description	UGT-1A is a uridine diphosphate glucuronyltransferase (UDP-glucuronosyltransferase, UDPGT), an enzyme of the glucuronidation pathway that transforms small lipophilic molecules, such as steroids, bilirubin, hormones, and drugs, into water-soluble, excretable metabolites.
Sequence	MATKAVCVLKGDGPVQG IINFEQKESNGPVKVGWS IKGLTEGLHGFHVHEFGD NTAGCTSGPHFNPLSRKH GGPKEERHVGDLGNVTA DKDGVADVSIEDSVISLSGD HCIIGRTLTVHEKADDLGKGGN EESTKTGNAGSRLACGVIGIAQ
Theoretical MW (kDa)	15.9
Form	Liquid
Preparation Method	Escherichia coli expression system
Purity	≥ 95% by SDS-PAGE

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Activity	Specific activity is > 90 units/mg, in which one unit will inhibit the rate of reduction of cytochrome c by 50% in a coupled system, using xanthine and Xanthine oxidase at pH 7.8 at 25°C in a 1.5 ml reaction volume.
Application	SDS-PAGE; Functional Study
Storage Buffer	In 20 mM Tris, pH 7.5 (10% glycerol)
Storage	Store at 4°C for 1~2 weeks. For long term storage store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.
Unitprot ID	Q5DT03
Pathways	Ascorbate and aldarate metabolism; Biological oxidants; Drug metabolish-cytochrome P450; Estrogen metabolish; Irinotecan pathway; Metabolish of lipids and lipoproteins; Retinol metabolish; Starch and sucrose metabolish; Steroid hormone biosynthesis; metabolish pathway
Functions	enzyme binding; enzyme inhibitor activity; qlucuronosyltransferase activity; protein heterodimerization activity; retinoic acid binding; steroid binding

GENE INFORMATION

Gene Name	UGT1A1 UDP glucuronosyltransferase 1 family, polypeptide A1 [Homo sapiens]
Official Symbol	UGT1A1
Synonyms	UGT1A1; GNT1; UGT1; UDPGT; UGT1A; HUG-BR1; BILIQTL1; UDPGT 1-1; HUG-BR1; UDP glycosyltransferase 1 family, polypeptide A1; UGT1-01; UGT-1A; UGT1*1; UGT1.1; UDP-glucuronosyltransferase 1-A1; UDPGT 1-1; EC 2.4.1.17; BILIQTL1; Hug-br1; UDP glucuronosyltransferase 1 family, polypeptide A1; Bilirubin-specific

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UDPGT isozyme 1; UDPGT; UDP-glucuronosyltransfersae 1-A;
OTTHUMP000000651199

Gene ID 54658

mRNA Refseq NM_000463

Protein Refseq NP_000454

MIM 191740

**Chromosome
Location** 2q37

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