

UGT1A7 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702486
Synonyms:	UDP-glucuronosyltransferase 1A7; UDP-glucuronosyltransferase 1-7; UDPGT 1-7; UGT1*7; UGT1-07; UGT1.7; UDP-glucuronosyltransferase 1-G; UGT-1G; UGT1G
Species:	Human
Source:	E. coli Cell-free
Accession:	Q9HAW7 (G26-H530)
Gene ID:	54577
Molecular Weight:	60.0 kDa

PROPERTIES

AA Sequence	<pre> G K L L V V P M D G S H W F T M Q S V V E K L I L R G H E V V V V M P E V S W Q L G R S L N C T V K T Y S T S Y T L E D Q D R E F M V F A D A R W T A P L R S A F S L L T S S S N G I F D L F F S N C R S L F N D R K L V E Y L K E S C F D A V F L D P F D A C G L I V A K Y F S L P S V V F A R G I F C H Y L E E G A Q C P A P L S Y V P R L L L G F S D A M T F K E R V W N H I M H L E E H L F C P Y F F K N V L E I A S E I L Q T P V T A Y D L Y S H T S I W L L R T D F V L E Y P K P V M P N M I F I G G I N C H Q G K P V P M E F E A Y I N A S G E H G I V V F S L G S M V S E I P E K K A M A I A D A L G K I P Q T V L W R Y T G T R P S N L A N N T I L V K W L P Q N D L L G H P M T R A F I T H A G S H G V Y E S I C N G V P M V M M P L F G D Q M D N A K R M E T K G A G V T L N V L E M T S E D L E N A L K A V I N D K S Y K E N I M R L S S L H K D R P V E P L D L A V F W V E F V M R H K G A P H L R P A A H D L T W Y Q Y H S L D V I G F L L A V V L T V A F I T F K C C A Y G Y R K C L G K K G R V K K A H K S K T H </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

UGT1A7 is a UDP-glucuronosyltransferase (UGT) that plays a pivotal role in phase II biotransformation reactions, facilitating the conjugation of lipophilic substrates with glucuronic acid to enhance water solubility and promote excretion into urine or bile. This enzymatic activity is crucial for the elimination and detoxification of drugs, xenobiotics, and endogenous compounds. UGT1A7 is involved in the glucuronidation of various substances, including endogenous estrogen hormone epiestradiol, phytoestrogens like genistein and daidzein, the angiotensin receptor antagonist caderastan, and the active metabolite of the anticancer drug irinotecan, SN-38. Additionally, it participates in the biotransformation of mycophenolate, an immunosuppressive agent. Notably, while UGT1A7 lacks glucuronidation activity itself, it serves as a negative regulator of isoform 1.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA