



Recombinant Human UDP-glucuronosyltransferase 1-1 (UGT1A1), partial

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| Product Code | CSB-EP025570HU-B |
| 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. |
| Uniprot No. | P22309 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | >85% (SDS-PAGE) |
| Sequence | HAGKILLIPVDGSHWLSMLGAIQQLQQRGHEIVVLAPDASLYIRDGAFYTLKTYP VPFQREDVKESFVSLGHNVFENDSFLQRVIKTYKKIKKDSAMLLSGCSHLLHNK ELMASLAESSFDVMLTDPFLPCSPIVAQYLSLPTVFFLHALPCSLEFEATQCPN PFSYVPRPLSSHSDHMTFLQRVKNMLIAFSQNFLCDVVYSPYATLASEFLQRE VTVQDLLSSASVWLFVRSDFVKDYPRPIMPNMVFGGINCLHQNPLSQEFAYI NASGEHGIVVFSLGSMVSEIPEKKAMAADALGKIPQTVLWRYTGTRPSNLANN TILVKWLPQNDLLGHPMTRAFITHAGSHGVYESICNGVPMVMMPLFGDQMDN AKRMETKGAGVTLNVLEMTSEDLENALKAVINDKSYKENIMRSSLHKDRPVE PLDLAVFWVEFVMRHKGAPHLRPAADLTWYQYHSLDVIGFLLAVVLTVAFITF KCCAYGYRKCCLGKKGRVKKAKHKSATH |
| Source | E.coli |
| Target Names | UGT1A1 |
| Protein Names | Recommended name: UDP-glucuronosyltransferase 1-1 Short name= UDPGT 1-1 Short name= UGT1*1 Short name= UGT1-01 Short name= UGT1.1 EC= 2.4.1.17Alternative name(s): Bilirubin-specific UDPGT isozyme 1 Short name= hUG |
| Expression Region | 26-533 |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4? for up to one week. |
| Tag Info | Tag type will be determined during the manufacturing process. |
| Protein Length | Partial |
| Target Details | 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. The preferred substrate of this enzyme is bilirubin, although it also has moderate activity with simple phenols, flavones, and C18 steroids. Mutations in this gene result in Crigler-Najjar syndromes types I and II and in Gilbert syndrome.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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