

## 25-hydroxycholesterol 7-alpha-hydroxylase (Cyp7b1) Recombinant Protein | Cyp7b1 recombinant protein

Recombinant Mouse 25-hydroxycholesterol 7-alpha-hydroxylase (Cyp7b1)

CATALOG #  
AAA117232

HOST  
E Coli or Yeast or Baculovirus or Mammalian Cell

### PRODUCT SYNONYMS

25-hydroxycholesterol 7-alpha-hydroxylase (Cyp7b1); Recombinant Mouse 25-hydroxycholesterol 7-alpha-hydroxylase (Cyp7b1); Cyp7b1 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Sequence Positions      | 1-507aa; Full Length Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Sequence                | MQGATTLDAA SPGPLALLGL LFAATLLLSA LFLLTRRTRR PREPPLIKGW LPYLGMAKF FKDPLTFLKT LQRQHGDFTF VFLVGKYITF VLNPFQYQYV TKNPKQLSFQ KFSSRLSAKA FSVKKLLTDD DLNEDVHRAY LLLQGKPLDA LLETMIQEVK ELFESQLLKI TDWINTERIFA FCGSLVFEIT FATLYGKILA GNKKQIISEL RDDFFKFDDM FPYLVSDIPI QLLRNEESMQ KKIHKCLTSE KVAQMQGQSK IVQERQDLLK RYYRHDDPEI GAHHLGFLWA SLANTIPAMF WAMYYILRHP EAMEALRDEI DSFLQSTGQK KGPGISVHFT REQLDSLVLCL ESTILEVLRL CSYSSIIREV QEDMNLSLES KSFSLRKQDF VALFPPLIHN DPEIFDAPKE FRFDRFIEDG KKKSTFFKGG KKLKTYVMPF GLGTSKCPGR YFAVNEMKLL LIMLLTYFDL EIIDRKPIGL NHSRMFLGIQ HPDSAVSFRY KAKSWRS |
| Species                 | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                                                                                                                                                                                                                                                                                                                                                                            |

### ADDITIONAL INFORMATION

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|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for Cyp7b1 recombinant protein | This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This endoplasmic reticulum membrane protein catalyzes the first reaction in the cholesterol catabolic pathway of extrahepatic tissues, which converts cholesterol to bile acids. This enzyme likely plays a minor role in total bile acid synthesis, but may also be involved in the development of atherosclerosis, neurosteroid metabolism and sex hormone synthesis. |
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### NCBI AND UNIPROT INFORMATION

|                           |                |
|---------------------------|----------------|
| NCBI GI #                 | 160707927      |
| NCBI GeneID               | 13123          |
| NCBI Accession #          | NP_031851.3    |
| NCBI GenBank Nucleotide # | NM_007825.4    |
| UniProt Accession #       | Q60991; Q9CZ39 |
| Molecular Weight          | 58,470 Da      |

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| NCBI Official Full Name          | 25-hydroxycholesterol 7-alpha-hydroxylase             |
| NCBI Official Synonym Full Names | cytochrome P450, family 7, subfamily b, polypeptide 1 |
| NCBI Official Symbol             | Cyp7b1                                                |
| NCBI Official Synonym Symbols    | hct-1; AW261589; D3Ert552e                            |
| NCBI Protein Information         | 25-hydroxycholesterol 7-alpha-hydroxylase             |
| UniProt Protein Name             | 25-hydroxycholesterol 7-alpha-hydroxylase             |
| UniProt Gene Name                | <b>Cyp7b1</b>                                         |
| UniProt Synonym Gene Names       | HCT-1                                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cyp7b1-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/117232>