



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

<b>Product Code</b>	CSB-MP733726MO
<b>Abbreviation</b>	Cyp7b1
<b>Storage</b>	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.
<b>Uniprot No.</b>	Q60991
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MQGATTLDAASPGPLALLGLLFAATLLLSALFLLTRRTRRPREPPLIKGWL LPYLGMAKFKDPLTFLKTLQRQHGDTFTVFLVGKYITFVLNPFQYQYV TKNPKQLSFQKFSSRLSAKAFSVKLLTDDDLNEDVHRAYLLLQGKPLDA LLETMIQEVKELFESQLLKITDWNTERIFAFCGSLVFEITFATLYGKILA GNKKQIISELRDDFFKFDDMPYLVSDIPIQLLRNEESMQKKIHKCLTSE KVAQMGGQSKIVQERQDLLKRYRHRDDPEI GAHHLGFLWA SLANTIPAMF WAMYYILRHP EAMEALRDEI DSFLQSTGQKKGPGISVHFTREQLDSLVCLE ESTILEVLRLCSYSSIIREVQEDMNLSLESKFSRLRGDFVALFPPLIHN DPEIFDAPKEFRFDRFIEDGKKKSTFFKGGKCLKTYVMPFGLGTSKCPGR YFAVNEMKLLLIMLLTYFDLEIIDRKPIGLNHSRMFLGIQHPDSAVSFRY KAKSWRS
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Cyp7b1
<b>Protein Names</b>	Recommended name: 25-hydroxycholesterol 7-alpha-hydroxylase EC= 1.14.13.100 Alternative name(s): Cytochrome P450 7B1 Hippocampal transcript 1 protein Short name= HCT-1 Oxysterol 7-alpha-hydroxylase
<b>Expression Region</b>	1-507
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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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**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.

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