



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

Product Code	CSB-YP714349RA
Abbreviation	Cyp7b1
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.	Q63688
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	ALEYQYVMKN PKQLSFEKFS RRLSAKAFSV KKLLTNDLDS NDIHRGYLLL QGKSLDGLLE TMIQEVKEIF ESRLKLTDW NTARVDFDSC SLVFEITFTT IYGKILAANK KQIISELRDD FLKFDDHFPY LVSDIPIQLL RNAEFMQKKI IKCLTPEKVA QMQRSEIVQ ERQEMLKKYY GHEEFEIGAH HLGLLWASLA NTIPAMFWAM YYLLQHPEAM EVLRDEIDSF LQSTGQKKGP GISVHFTREQ LDSLVCLESA ILEVLR LCSY SSIIREVQED MDFSSERSY RLRKGDFVAV FPPMIHNDPE VFDAPKDFRF DRFVEDGKKK TTFKGGKKL KSYIIPFGLG TSKCPGRYFA INEMKLLVII LLTYFDLEVI DTKPIGLNHS RMFLGIQHPD SDISFRYKAK SWRS
Source	Yeast
Target Names	Cyp7b1
Protein Names	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
Expression Region	1-414
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.



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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