Recombinant Human 25-hydroxycholesterol 7-alpha-hydroxylase (CYP7B1)

Product Code	CSB-MP006461HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O75881
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MAGEVSAATG RFSLERLGLP GLALAAALLL LALCLLVRRT RRPGEPPLIK GWLPYLGVVL NLRKDPLRFM KTLQKQHGDT FTVLLGGKYI TFILDPFQYQ LVIKNHKQLS FRVFSNKLLE KAFSISQLQK NHDMNDELHL CYQFLQGKSL DILLESMMQN LKQVFEPQLL KTTSWDTAEL YPFCSSIIFE ITFTTIYGKV IVCDNNKFIS ELRDDFLKFD DKFAYLVSNI PIELLGNVKS IREKIIKCFS SEKLAKMQGW SEVFQSRQDV LEKYYVHEDL EIGAHHLGFL WASVANTIPT MFWAMYYLLR HPEAMAAVRD EIDRLLQSTG QKKGSGFPIH LTREQLDSLI CLESSIFEAL RLSSYSTTIR FVEEDLTLSS ETGDYCVRKG DLVAIFPPVL HGDPEIFEAP EEFRYDRFIE DGKKKTTFFK RGKKLKCYLM PFGTGTSKCP GRFFALMEIK QLLVILLTYF DLEIIDDKPI GLNYSRLLFG IQYPDSDVLF RYKVKS
Source	Mammalian cell
Target Names	CYP7B1
Protein Names	Recommended name: 25-hydroxycholesterol 7-alpha-hydroxylase EC= 1.14.13.100 Alternative name(s): Cytochrome P450 7B1 Oxysterol 7-alpha-hydroxylase
Expression Region	1-506
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	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.