Recombinant Pig Cholesterol 7-alpha-monooxygenase (CYP7A1), partial

Product Code	CSB-EP006460PI-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O46491
Product Type	Recombinant Protein
Immunogen Species	Sus scrofa (Pig)
Purity	≥85% (SDS-PAGE)
Sequence	MMSISLLGGI VTAVCCCLWL LLGMRRRQTG EPPLENGIIP YLGCALQFGA NPLEFLRANQ RKHGHIFTCQ LMGNYVHFIT NPLSYHKVLC HGKYLDWKKF HFTASAKAFG HRSIDPSDGN TTDNINKTII KTLQGDALNL LAAAMMENLQ LVLRPQVAPQ PEKPAWVTEG MYSFCYRVMF EAGYVTLFGK DPIGHDAQKA LILNNLDNFK QFDKIFPALV AGFPIHVFKT GHYAREKLAE GLRLQKLRKR DHISELVRFL NDTLSTLDDA EKAKSLLAVL WASQANTIPA TFWCLFQTIR SPEAMKAASE EVNKTLEKAG QKISLDDKPI YLNQIELDSM PVLDSIIKES LRLSSASLNI RTAKEDFTLH LQDGSYNIRK DDIIALYPQL MHLDPEIYPD PLTFKYDRYL DENGKTKTTF YSHGLKLKYY YMPFGSGATI CPGRLFAVQE IKQFLILMLS YFDLELVESH VKCPPLDQSR AGLGILPPSN DIEFRYKLKH L
Source	E.coli
Target Names	CYP7A1
Protein Names	Recommended name: Cholesterol 7-alpha-monooxygenase EC= 1.14.13.17 Alternative name(s): CYPVII Cholesterol 7-alpha-hydroxylase Cytochrome P450 7A1
Expression Region	1-501
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	Partial
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 in the liver, which converts cholesterol to bile acids. This reaction is the rate limiting step and the major site of regulation of bile acid synthesis, which is the primary mechanism for the removal of cholesterol from the body.
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.