



Recombinant Human Cholesterol side-chain cleavage enzyme, mitochondrial (CYP11A1)

Product Code	CSB-MP006389HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P05108
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	I STRSPRPFNE IPSPGDNGWL NLYHFWRETG THKVHLHHVQ NFQKYGPIYR EKLGNVESVY VIDPEDVALL FKSEGPNPER FLIPPWVAYH QYYQRPIGVL LKKSAAWKKD RVALNQEVMMA PEATKNFLPL LDAVSRDFVS VLHRRIKKAG SGNYSGDISD DLFRFAFESI TNVIFGERQG MLEEVVNPEA QRFIDAIYQM FHTSVPMLNL PPDFLRLFRT KTWKDHVAAW DVIFSKADIY TQNFYWELRQ KGSVHHDYRG ILYRLLGDSK MSFEDIKANV TEMPLAGGVD TSM TLQWHL Y EMARNLKVQD MLRAEVLAAR HQAQGDMATM LQLVPLLKAS IKETLRLHPI SVTLQRYLVN DLVLRDYMIP AKTLVQVAIY ALGREPTFFF DPENFDPTRW LSKDKNITYF RNLGFGWGVR QCLGRRIAEL EMTIFLINML ENFRVEIQHL SDVGTTFNLI LMPEKPISFT FWPFNQEATQ Q
Source	Mammalian cell
Target Names	CYP11A1
Protein Names	Recommended name: Cholesterol side-chain cleavage enzyme, mitochondrial EC= 1.14.15.6 Alternative name(s): CYPXIA1 Cholesterol desmolase Cytochrome P450 11A1 Cytochrome P450(scc)
Expression Region	40-521
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 of Mature 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 protein localizes to the mitochondrial inner membrane and catalyzes the conversion of cholesterol to pregnenolone, the first and rate-limiting step in the synthesis of the steroid hormones. Two transcript variants encoding different isoforms have been found for this gene. The cellular location of the smaller isoform is unclear since it lacks the mitochondrial-targeting transit peptide.
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.