



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

<b>Product Code</b>	CSB-BP006389HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P05108
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>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 TEMPLAGGVDV TSMTLQWHLY  EMARNLKVQD MLRAEVLAAR HQAQGDMATM LQLVPLLKAS IKETLRLHPI  SVTLQRYLVN DLVLRDYMIP AKTLVQVAIY ALGREPTFFF DPENFDPTRW  LSKDKNITYF RNLGFGWGVR QCLGRRIAEL EMTIFLINML ENFRVEIQHL  SDVGTTFNLI LMPEKPISFT FWPFNQEATQ Q</p>
<b>Source</b>	Baculovirus
<b>Target Names</b>	CYP11A1
<b>Protein Names</b>	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)
<b>Expression Region</b>	40-521
<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 of Mature 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 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.
<b>Reconstitution</b>	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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**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.