



# Recombinant Human Cytochrome P450 11B1, mitochondrial (CYP11B1)

<b>Product Code</b>	CSB-EP006390HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P15538
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	GTRAAR VPRTVLPFEA MPRRPGNRWL RLLQIWREQG YEDLHLEVHQ TFQELGPIFR YDLGGAGMVC VMLPEDVEKL QQVDSLPHR MSLEPWWAYR QHRGHKCGVF LLNGPEWRFN RLRLNPEVLS PNAVQRFLPM VDAVARDFSQ ALKKKVLQNA RGSLLTDVQP SIFHYTIEAS NLALFGERLG LVGHSPSSAS LNFLHALEVM FKSTVQLMFM PRSLSRWTSP KVKWEHFEAW DCIFQYGDNC IQKIYQELAF SRPQQYTSIV AELLLNAELS PDAIKANSME LTAGSVDTTV FPLLMTLFEL ARNPVQQAL RQESLAAAAS ISEHPQKATT ELPLLRAALK ETRLRYPVGL FLERVASSDL VLQNYHIPAG TLVRVFLYSL GRNPALFPRP ERYNPQRWLD IRGSGRNFYH VPFQFGMRQC LGRRLAEAEM LLLLHHVLKH LQVETLTQED IKMVYSFILR PSMFPLLTFR AIN
<b>Source</b>	E.coli
<b>Target Names</b>	CYP11B1
<b>Protein Names</b>	Recommended name: Cytochrome P450 11B1, mitochondrial Alternative name(s): CYPXIB1 Cytochrome P-450c11 Short name= Cytochrome P450C11 Steroid 11-beta-hydroxylase EC= 1.14.15.4
<b>Expression Region</b>	25-503
<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 is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene.
<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.