



Recombinant Human Cytochrome P450 11B2, mitochondrial (CYP11B2)

Product Code	CSB-EP006391HU-B
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P19099
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	GTRAAR APRTVLPFEA MPQHPGNRWL RLLQIWREQG YEHLHLEMHQ TFQELGPIFR YNLGGPRMVC VMLPEDVEKL QQVDSLHPCR MILEPWVAYR QHRGHKCGVF LLNGPEWRFN RLRLNPDVLS PKAVQRFLPM VDAVARDFSQ ALKKKVLQNA RGSLLTDVQP SIFHYTIEAS NLALFGERLG LVGHSPSSAS LNFLHALEVM FKSTVQLMFM PRSLSRWISP KVVKEHFEAW DCIFQYGDNC IQKIYQELAF NRPQHYTGIV AELLLKAELS LEAIKANSME LTAGSVDTTA FPLLMTLFEL ARNPDVQQIL RQESLAAAAS ISEHPQKATT ELPLRAALK ETRLRYPVGL FLERVVSSDL VLQNYHIPAG TLVQVFLYSL GRNAALFPRP ERYNPQRWLD IRGSGRNFHH VPFQFGMRQC LGRRLAEAEM LLLLHHVLKH FLVETLTQED IKMVYSFILR PGTSPLLTFR AIN
Source	E.coli
Target Names	CYP11B2
Protein Names	Recommended name: Cytochrome P450 11B2, mitochondrial Alternative name(s): Aldosterone synthase Short name= ALDOS EC= 1.14.15.4 EC= 1.14.15.5 Aldosterone-synthesizing enzyme CYPXIB2 Cytochrome P-450Aldo Cytochr
Expression Region	25-503
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. The enzyme has steroid 18-hydroxylase activity to synthesize aldosterone and 18-oxocortisol as well as steroid 11 beta-hydroxylase activity. Mutations in this gene cause corticosterone methyl oxidase deficiency.
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.