



# Recombinant Human Steroid 17-alpha-hydroxylase/17,20 lyase (CYP17A1)

<b>Product Code</b>	CSB-EP006392HU-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P05093
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MWELVALLLL TLAYLFWPKR RCPGAKYPKS LLSLPLVGSL PFLPRHGHMH NNFFKLQKKY GPIYSVRMGT KTTVIVGHHQ LAKEVLIKKG KDFSGRPQMA TLDIASNNRK GIAFADSGAH WQLHRRlama TFALFKDGDQ KLEKIICQEI STLCDMLATH NGQSIDISFP VFAVTVNVIS LICFNTSYKN GPELNVIQN YNEGIIDNLS KDSLVDLVPW LKIFPNKTLE KLKSHVKIRN DLLNKILENY KEKFRSDSIT NMLDTLMQAK MNSDNGNAGP DQDSELLSDN HILTTIGDIF GAGVETTTSV VKWTLAFLH NPQVKKKLYE EIDQNVGFSR TPTISDRNRL LLEATIREV LRLRPVAPML IPHKANVDSS IGEFAVDKGT EVIINLWALH HNEKEWHQPD QFMPERFLNP AGTQLISPSV SYLPFGAGPR SCIGEILARQ ELFLIMAWLL QRFDLEVPDD GQLPSLEGIP KVVFLIDSFK VKIKVRQAWR EAQAEGST
<b>Source</b>	E.coli
<b>Target Names</b>	CYP17A1
<b>Protein Names</b>	Recommended name: Steroid 17-alpha-hydroxylase/17,20 lyase EC= 1.14.99.9Alternative name(s): CYPXVII Cytochrome P450 17A1 Cytochrome P450-C17 Short name= Cytochrome P450c17 Steroid 17-alpha- monooxygenase
<b>Expression Region</b>	1-508
<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 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 endoplasmic reticulum. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17 alpha-hydroxylase deficiency, 17-alpha- hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal



hyperplasia.

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**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.

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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.