

## Recombinant Human CYP21A2 Protein, His-tagged

**Cat. No.** CYP21A2-1180H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CYP21A2 Protein (1-494aa) was expressed in Yeast with N-terminal His-tag.
<b>Species</b>	Human
<b>Source</b>	Yeast
<b>ProteinLength</b>	1-494 a.a.
<b>Description</b>	<p>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 and hydroxylates steroids at the 21 position. Its activity is required for the synthesis of steroid hormones including cortisol and aldosterone. Mutations in this gene cause congenital adrenal hyperplasia. A related pseudogene is located near this gene; gene conversion events involving the functional gene and the pseudogene are thought to account for many cases of steroid 21-hydroxylase deficiency. Two transcript variants encoding different isoforms have been found for this gene.</p>
<b>Form</b>	Tris-based buffer, 50% glycerol.
<b>Molecular Mass</b>	57.9 kDa
<b>AA Sequence</b>	MLLLGLLLLLPLLAGARLLWNWWKLRSLHLPPLAPGFLHLLQPDLPYLLGLTQKFGPI

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YRLHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPLTYKLVSKNYPDLSLGDYSL  
 WKAHKKLTRSALLLGIRDSMEPVVEQLTQEFCEMRAQPGPVVAIEEEFSLTCSIIC  
 YLTFGDKIKDDNLMPAYYKCIQEVLKTWSHWSIQIVDVIPFLRFFPNPGLRRLKQAIK  
 RDHIVEMQLRQHKESLVAGQWRDMMDYMLQGVAQPSMEEGSGQLLEGHVHMAA  
 VDLLIGGTETTANTLSWAVVFLHHPEIQRLQEELDHELPGGASSSRVPYKDRARL  
 PLLNATIAEVLRLRPVPLALPHRTRPSSISGYDIPEGTVIIPNLQGAHLDETVERP  
 HEFWPDRFLEPGKNSRALAFGCGARVCLGEPLARLELFVVLTRLLQAFTLLPSGDAL  
 PSLQPLPHCSVILKMQPFQVRLQPRGMGAHSPGQNQ

**Purity** Greater than 90% as determined by SDS-PAGE.

**Storage** The shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

## GENE INFORMATION

**Gene Name** CYP21A2 cytochrome P450 family 21 subfamily A member 2 [ Homo sapiens (human) ]

**Official Symbol** CYP21A2

**Synonyms** CAH1; CPS1; CA21H; CYP21; CYP21B; P450c21B

**Gene ID** 1589

**mRNA Refseq** NM\_000500.7

**Protein Refseq** NP\_000491.4

**MIM** 613815

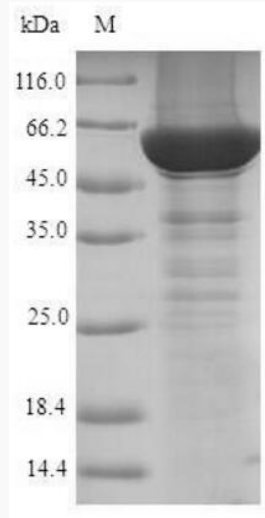
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UniProt ID

P08686



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