

# Recombinant Human CYP21A2 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CYP21A2-606H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	CYP21A2 MS Standard C13 and N15-labeled recombinant protein (NP_000491) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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>Molecular Mass</b>	56 kDa
<b>AA Sequence</b>	<p>MLLLGLLLLLPLLAGARLLWNWWKLQSLHLPPLAPGFLHLLQPDLPYLLGLTQKFGPI  YRLHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPLTYKLVSRNYPDLSLGDYSLL  WKAHKKLTRSALLLGIRDSMEPVVEQLTQEFCEMRAQPGTPVAIEEEFSLLTCSIIC</p>

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YLTFGDKIKDDNLMPAYYKCIQEVLKTWSHWSIQIVDVIPFLRFFPNPGLRRLKQAIK  
 RDHIVEMQLRQHKESLVAGQWRDMMDYMLQGVAQPSMEEGSGQLLEGHVHMAA  
 VDLLIGGTETTANTLSWAVVFLHHPEIQRLQEELDHELPGGASSSRVPYKDRARL  
 PLLNATIAEVLRLRPVVPLALPHRTRRPSSISGYDIPEGTVIIPNLQGAHLDETVERP  
 HEFWPDRFLEPGKNSRALAFGCGARVCLGEPLARLELFVVLTRLLQAFTLLPSGDAL  
 PSLQPLPHCSVILKMQPFQVRLQPRGMGAHSPGQSQTRTRPLEQKLISEEDLAANDI  
 LDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for 3 months from receipt of products under proper storage and handling conditions.

**Storage** Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

**Concentration** 50 µg/mL as determined by BCA

**Storage Buffer** 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

## GENE INFORMATION

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

**Official Symbol** CYP21A2

**Synonyms** CYP21A2; cytochrome P450, family 21, subfamily A, polypeptide 2; CYP21, CYP21B, cytochrome P450, subfamily XXIA (steroid 21 hydroxylase, congenital adrenal hyperplasia), polypeptide 2; steroid 21-hydroxylase; CA21H; CAH1; CPS1; P450c21B; Steroid 21 monooxygenase; 21-OHase; cytochrome P450 21; cytochrome P450 XXI; cytochrome P450-C21B; steroid 21-monooxygenase; cytochrome P450,

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subfamily XXIA (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide 2; CYP21; CYP21B; MGC150536; MGC150537;

**Gene ID** 1589

**mRNA Refseq** NM\_000500

**Protein Refseq** NP\_000491

**MIM** 613815

**UniProt ID** P08686

**SDS-PAGE**



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