

Recombinant Full Length Human CYP21A2 Protein, GST-tagged

Cat. No. CYP21A2-2324HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP21A2 full-length ORF (BAG37212.1, 1 a.a. - 495 a.a.) recombinant protein with GST tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	495 amino acids
Description	<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. [provided by RefSeq, Jul 2008]</p>
Molecular Mass	80.85 kDa
AA Sequence	MLLLGLLLLLPLLAGARLLWNWWKLRSLHLPPLAPGFLHLLQPDLPIYLLGLTQKFGPI YRLHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPLTYKLVSRNYPDLSLGDYSLL

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WKAHKKLTRSALLLGIRDSMEPVVEQLTQEFCEMRAQPGTPVAIEEEFSLLTCSIIC
 YLTFGDKIKDDNLMPAYYKCIQEVLKTWSHWSIQIVDVIPFLRFFPNPGLRRLKQAI EK
 RDHIVEMQLRQHKESLVAGQWRDMMDYMLQGVAQPSMEEGSGQLLEGHVHMAA
 VDLLIGGTETTANTLSWAVVFLHHP EIQQLQEELDHELGP GASSSRVPYKDRARL
 PLLNATIAEVLRLRPVVPLALPHRTTRPSSISGYDIPEGTVIIPNLQGAHLDET VWERP
 HEFWPDRFLEPGKNSRALAFGCGARVCLGEPLARLELFVVLTRLLQAFTLLPSGDAL
 PSLQPLPHCSVILKMQPFQVRLQPRGMGAHSPGQSQ

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
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Notes	Best use within three months from the date of receipt of this protein.
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Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
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Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
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GENE INFORMATION


Gene Name	CYP21A2 cytochrome P450, family 21, subfamily A, polypeptide 2 [Homo sapiens]
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Official Symbol	CYP21A2
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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, subfamily XXIA (steroid 21-hydroxylase, congenital adrenal hyperplasia), polypeptide
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2; CYP21; CYP21B; MGC150536; MGC150537;


Gene ID 1589

mRNA Refseq NM_000500


Protein Refseq NP_000491

MIM 613815

UniProt ID P08686

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