

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	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]
Molecular Mass	80.85 kDa
AA Sequence	MLLLGLLLLLPLLAGARLLWNWWKLRSLHLPPLAPGFLHLLQPDLPIYLLGLTQKFGPI YRLHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPLTYKLVSRYNPDLSLGDYSL

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WKAHKKLTRSALLLGIRDSMEPVVEQLTQEFCEMRMQPGTPVAIEEEFSLTCSIIC
 YLTFGDKIKDDNLMPAYYKCIQEVLTWSHWSIQIVDVIPFLRFFPNPGLRRLKQAIEK
 RDHIVEMQLRQHKESLVAGQWRDMDYMLQGVAQPSMEEGSGQLLEGHVHMAA
 VDLLIGGTETTANTLSWAVVFLHHPEIQQLQEELDHELPGGASSSRVPYKDRARL
 PLLNATIAEVLRLRPVVPLALPHRTTRPSSISGYDIPEGTVIIPNLQGAHLDETWERP
 HEFWPDRFLEPGKNSRALAFGCGARVCLGEPLARLELFVVLTRLLQAFTLLPSGDAL
 PSLQPLPHCSVILKMQPFQVRLQPRGMGAHSPGQSQ

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CYP21A2 cytochrome P450, family 21, subfamily A, polypeptide 2 [Homo sapiens]

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, 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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