Recombinant Human CYP21A2 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CYP21A2 Protein (1-494aa) was expressed in Yeast with N-terminal His-tag.
Species	Human
Source	Yeast
ProteinLength	1-494 a.a.
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.
Form	Tris-based buffer, 50% glycerol.
Molecular Mass	57.9 kDa
AA Sequence	MLLLGLLLLPLLAGARLLWNWWKLRSLHLPPLAPGFLHLLQPDLPIYLLGLTQKFGPI

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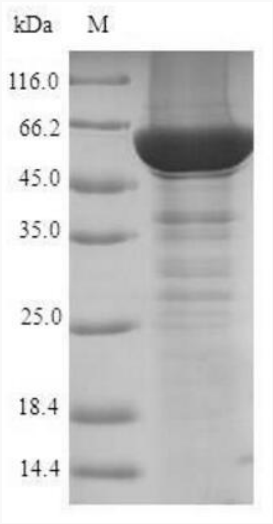
	YRLHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPLTYKLVSKNYPDLSLGDYSLL WKAHKKLTRSALLLGIRDSMEPVVEQLTQEFCERMRAQPGTPVAIEEEFSLLTCSIIC YLTFGDKIKDDNLMPAYYKCIQEVLKTWSHWSIQIVDVIPFLRFFPNPGLRRLKQAIEK RDHIVEMQLRQHKESLVAGQWRDMMDYMLQGVAQPSMEEGSGQLLEGHVHMAA VDLLIGGTETTANTLSWAVVFLLHHPEIQQRLQEELDHELGPGASSSRVPYKDRARL PLLNATIAEVLRLRPVVPLALPHRTTRPSSISGYDIPEGTVIIPNLQGAHLDETVWERP 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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