

Product datasheet for PH316416

CYP21A2 (NM_000500) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CYP21A2 MS Standard C13 and N15-labeled recombinant protein (NP_000491)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216416
Predicted MW:	56 kDa
Protein Sequence:	>RC216416 protein sequence Red=Cloning site Green=Tags(s)

MLLLGLLLLLPLLAGARLLWNWKLQSLHLPLAPGFLHLLQPDLPYLLGLTQKFGPIYRLHLGLQDVV
VLNSKRTIEEAMVKKWADFAGRPEPTYKLVSRNYPDLSLGDYSLLWKAHKKLTRSALLLGIKRDSEMPV
EQLTQEFCEMRMQPGTPVAIEEEFSLLTCSIICYLTFGDKIKDDNLMPAYKCIQEVLKTSWHSIQIV
DVIPFLRFFPNPGLRRLKQAIKRDHIVEMQLRQHKESLVAGQWRDMDYMLQGVAPSMEEGSGQLLEG
HVMMAVDLLIGGTETTANTLSWAVVFLHHPETIQRLQEELDHELGPASSSRVPYKDRARLPLLNATI
AEVLRRLRPVVPLALPHRTTRPSSISGYDIPEGTVIIPNLQGAHLDVWERPHEFWPDRFLEPGKNSRAL
AFGCGARVCLGEPLARLELFVVLTRLLQAFTLLPSGDALPSLQPLPHCSVILKMQPFQVRLQPRGMGAHS
PGQSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_000491</u>
RefSeq Size:	2131
RefSeq ORF:	1485



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

Locus ID: 1589

UniProt ID: [P08686](#), [Q16874](#), [Q08AG9](#)

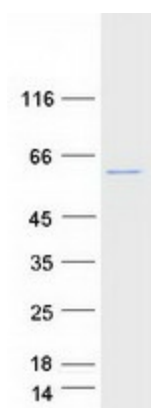
Cytogenetics: 6p21.33

Summary: 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]

Protein Families: Druggable Genome, P450

Protein Pathways: C21-Steroid hormone metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified CYP21A2 protein (Cat# [TP316416]). The protein was produced from HEK293T cells transfected with CYP21A2 cDNA clone (Cat# [RC216416]) using MegaTran 2.0 (Cat# [TT210002]).