

Recombinant Full Length Human CYP17A1 Protein, GST-tagged

Cat. No. CYP17A1-2293HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP17A1 full-length ORF (AAH63388.1, 1 a.a. - 508 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	508 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. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progesterone, mineralocorticoids, glucocorticoids, androgens, and estrogens. Mutations in this gene are associated with isolated steroid-17 alpha-hydroxylase deficiency, 17-alpha-hydroxylase/17,20-lyase deficiency, pseudohermaphroditism, and adrenal hyperplasia. [provided by RefSeq, Jul 2008]
Molecular Mass	81.62 kDa
AA Sequence	MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSLPFLPRHGHMHNNFFKLQ KKYGPIYSVRMGTKTTVIVGHHQLAKEVLIKKGKDFSGRPQMATLDIASNNRKGI AFA DSGAHWQLHRRLAMATFALFKDGDQKLEKIICQEISTLCDMLATHNGQSIDISFPVFV

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AVTNVISLICFNTSYKNGDPELNVIQNYNEGIIDNLSKDSLVDLPWLKIFPNKTLEKLK
SHVKIRNDLLNKILENYKEKFRSDSITNMLDTLMQAKMNSDNGNAGPDQDSELLSDN
HILTTIGDIFGAGVETTTSVVKWTLAFLHNPQVKKKLYEEIDQNVGFSRTPTISDRNR
LLLLLEATIREVLRLRPVAPMLIPHKANVDSSIGFAVDKGTEVIINLWALHHEKEWHQ
PDQFMPPERFLNPAGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDE
VPDDGQLPSLEGIPKVVFLIDSFKVKIKVRQAWREAQAEGST

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

CYP17A1 cytochrome P450, family 17, subfamily A, polypeptide 1 [Homo sapiens]

Official Symbol

CYP17A1

Synonyms

CYP17A1; cytochrome P450, family 17, subfamily A, polypeptide 1; CYP17, cytochrome P450, subfamily XVII (steroid 17 alpha hydroxylase), adrenal hyperplasia; steroid 17-alpha-hydroxylase/17,20 lyase; CPT7; P450C17; S17AH; Steroid 17 alpha monooxygenase; CYPXVII; cytochrome P450c17; cytochrome P450-C17; cytochrome P450 17A1; cytochrome p450 XVIIA1; steroid 17-alpha-monooxygenase; cytochrome P450, subfamily XVII (steroid 17-alpha-hydroxylase), adrenal hyperplasia; CYP17

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Gene ID	1586
mRNA Refseq	NM_000102
Protein Refseq	NP_000093
MIM	609300
UniProt ID	P05093

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