

Recombinant Human Cytochrome P450 17A1

Cat. No. CYP17A1-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species Human

Source E.coli

Form 50mM Tris- HCl, pH7.4, 200mM NaCl, 10% glycerol

Molecular Mass Theoretical MW: ~55kDa

AA Sequence

AKKTGAKYPKSLLSPLVGSPLPFLPRHGHMHNNFFKLQKKYGPIYSVRMGTKTTVIV
GHHQLAKEVLIKKGKDFS GRPQMATLDIASNNRKGIADSGAHWQLHRRLAMATF
ALFKDGDQKLEKIICQEISTLCDMLATHNGQSIDISF PVFVAVTNVISLICFNTSYKNG
DPELNVIQNYNEGIIDNLSKDSLVDLVPWLKIFPNKTLEKLKSHVKIRNDLLN KILENY
KEKFRSDSITNMLDTLMQAKMNSDNGNAGPDQDSELLSDNHILTTIGDIFGAGVETT
TSVVKWTLAFLH HNPQVKKKLYEEIDQNVGFSRTPTISDRNRLLLLLEATIREVLRLRP
VAPMLIPHKANVDSSIGFAVDKGTEVII NLWALHHNEKEWHQPDQFMPERFLNPA
GTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDLEVPD DGQLPSLEGI
PKVVFLIDSFVKVVKVRQAWREAQAEGST

Purity >90% determined by SDS-PAGE.

Storage Short Term Storage +4°C. Long Term Storage -20°C please prepare aliquots and store at -20°C. Avoid freeze/thaw cycles.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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;
Gene ID	1586
mRNA Refseq	NM_000102
Protein Refseq	NP_000093
MIM	609300
UniProt ID	P05093
Chromosome Location	10q24.3
Pathway	Androgen biosynthesis, organism-specific biosystem; Biological oxidations, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone =>androstenedione => estrone, organism-specific biosystem; C19/C18-Steroid hormone biosynthesis, pregnenolone => androstenedione =>

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Function

electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxygen binding; steroid 17-alpha-monooxygenase activity;

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