

## Recombinant Human Cytochrome P450 17A1

CYP17A1-01H Human

Lot. No. (See product label)

### Specification

**Source** E.coli

**Species** Human

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

**Molecular Mass** Theoretical MW: ~55kDa

**AA Sequence**

AKKTGAKYPKSLLSLPLVGSLPFLPRHGHMHNNFFKLQKKYGPIYSVRMGTKTTVIVGHHQLAKE  
 VLIKKGKDFS  
 GRPQMATLDIASNNRKGIAFADSGAHWQLHRRRLAMATFALFKDGDQKLEKICQEISTLCDMLAT  
 HNGQSIDISF  
 PVFVAVTNVISLICFNTSYKNGDPELNVIQNYNEGIIDNLSKDSLVDLVPWLKIFPNKTLEKLKSHVK  
 IRNDLLN  
 KILENYKEKFRSDSITNMLDTLMQAKMNSDNGNAGPDQDSELLSDNHILTTIGDIFGAGVETTTSV  
 VKWTLAFL  
 HNPQVKKLYEEIDQNVGFSRTPTISDRNRLLEATIREVLRRLRPVAPMLIPHKANVDSSIGEFV  
 DKGTEVII  
 NLWALHHNEKEWHQPDQFMPPERFLNPAGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWL  
 LQRFDLEVPD DGQLPSLEGIPKVFLIDSFVKVIVRQAWREAQAEGST

**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.

### 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](#)

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**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 =>

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

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