

## Product datasheet for **TP309042L**

### Cytochrome P450 17A1 (CYP17A1) (NM\_000102) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human cytochrome P450, family 17, subfamily A, polypeptide 1 (CYP17A1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209042 representing NM_000102 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSLPFLPRHGHMHNNFFKLQKKYGPIYSVRMGT  
KTTVIVGHHQLAKEVLIKKGKDFSGRPQMATLDIASNNRKGIAFADSGAHWQLHRRLAMATFALFKDGDQ  
KLEIICQEISTLCDMLATHNGQSIDISFPVAVTNVISLICFNTSYKNGDPELNVIQNYNEGIIDNLS  
KDSLVDLVPWLKIFPNKTLEKLSHVKIRNDLLNKILENYKEKFRSDSITNMLDITLMQAKMNSDNGNAGP  
DQDSELLSDNHILTTIGDIFGAGVETTTSVVKWTLAFLHNPQVKKLYEEIDQNVGFSRTPTISDRNRL  
LLEATIREVLRRLRPVAPMLIPHKANVDSSIGFAVDKGTVEIINLWALHHNEKEWHQPDQFMPERFLNP  
AGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDFLEVPDDGQLPSLEGIPKVVFLIDSFK  
VKIKVRQAWREAQAEGST

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	57.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_000093](#)

**Locus ID:** 1586

**UniProt ID:** [P05093](#), [Q1HB44](#)

**RefSeq Size:** 1755

**Cytogenetics:** 10q24.32

**RefSeq ORF:** 1524

**Synonyms:** CPT7; CYP17; P450C17; S17AH

**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. It has both 17alpha-hydroxylase and 17,20-lyase activities and is a key enzyme in the steroidogenic pathway that produces progestins, 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]

**Protein Families:** Druggable Genome, P450

**Protein Pathways:** C21-Steroid hormone metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified CYP17A1 protein (Cat# [TP309042]). The protein was produced from HEK293T cells transfected with CYP17A1 cDNA clone (Cat# [RC209042]) using MegaTran 2.0 (Cat# [TT210002]).