

## Product datasheet for PH309042

### Cytochrome P450 17A1 (CYP17A1) (NM\_000102) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CYP17A1 MS Standard C13 and N15-labeled recombinant protein (NP_000093)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209042
Predicted MW:	57.2 kDa
Protein Sequence:	>RC209042 representing NM_000102 Red=Cloning site Green=Tags(s)

MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSLPFLPRHGHMHNFFKLQKKYGIPIYSVRMGT  
KTTVIVGHHQLAKEVLIKKGKDFSGRPQMATLDIASNNRKGIAFADSGAHWQLHRRLAMATFALFKDGDQ  
KLEKIICQEISTLCDMLATHNGQSIDISFPVFVAVTNVISLICFNNTSYKNGDPELNVIQNYNEGIIDNLS  
KDSLVDLVPWLKIFPNKTEKLSHKVIRNDLLNKILENYKEKFRSDSITNMLDTLMQAKMNSDNGNAGP  
DQDSELLSDNHILTTIGDIFGAGVETTTSVVKWTLAFLHNPQVKKKLYEEIDQNVGFSRTPTISDRNRL  
LLEATIREVLRRLRPVAPMLIPHKANVDSSIGEFVADKGTVEIINLWALHHNEKEWHQPQDFMPERFLNP  
AGTQLISPSVSYLPFGAGPRSCIGEILARQELFLIMAWLLQRFDLEVPDDGQLPSLEGIPKVVFLIDSFK  
VKIKVRQAWREAQAEGST

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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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_000093</u>
RefSeq Size:	1755
RefSeq ORF:	1524



[View online »](#)

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

**Locus ID:** 1586

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

**Cytogenetics:** 10q24.32

**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]).