

## Product datasheet for PH321240

### CYP11B1 (NM\_001026213) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CYP11B1 MS Standard C13 and N15-labeled recombinant protein (NP_001021384)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC221240
Predicted MW:	49.7 kDa
Protein Sequence:	>RC221240 protein sequence Red=Cloning site Green=Tags(s)
	MALRAKAEVCMVPLSLQRAQALGTRAARVPRTVLPFEAMPRRPGNRWLRLLQIWREQGYEDLHLEVHQ TFQELGPIFRYDLGGAGMVCMLPEDVEKLQQVDSLHPHRMSLEPVVAYRQHRGHKCGVFLNGPEWRFN RLRLNPEVLSRNAVQRFLPMVDAVARDFSQALKKKVLQNARGSLTLDVQPSIFHYTIEASNLALFGERLG LVGHSPSSASLNFLHALEVMFKSTVQLMFMPRSLSRWTSKPVWKEHFEAWDCIFQYGDNCIQKIYQELAF SRPQQYTSIVAELLLNAELSPDAIKANSMELTAGSVDTTVFPLLMTL FELARNPNVQQALRQESLAAAAA ISEHPQKATTELP LLRAALKETLRLYPVGLFLERVASSDLVLQNYHIPAGVLKHLQVETLTQEDIKMVYS FILRPSMFPLLTFRAIN
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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:	<a href="#">NP_001021384</a>
RefSeq Size:	3353
RefSeq ORF:	1311
Synonyms:	CPN1; CYP11B; FHI; P450C11



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Locus ID: 1584

UniProt ID: [P15538](#), [P15538-2](#)

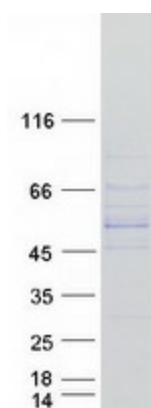
Cytogenetics: 8q24.3

**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 mitochondrial inner membrane and is involved in the conversion of progesterone to cortisol in the adrenal cortex. Mutations in this gene cause congenital adrenal hyperplasia due to 11-beta-hydroxylase deficiency. Transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome, P450

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

### Product images:



Coomassie blue staining of purified CYP11B1 protein (Cat# [TP321240]). The protein was produced from HEK293T cells transfected with CYP11B1 cDNA clone (Cat# [RC221240]) using MegaTran 2.0 (Cat# [TT210002]).