

Recombinant Human CYP11B1 Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. CYP11B1-387H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

CYP11B1 MS Standard C13 and N15-labeled recombinant protein (NP_001021384) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

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]

Molecular Mass

49.7 kDa

AA Sequence

MALRAKAEVCMAVPWLSLQRAQALGTRAARVPRTVLPFEAMPRRPGNRWLRLLQI
WREQGYEDLHLEVHQTFQELGPIFRYDLGGAGMVCVMLPEDVEKLQQVDSLPHPR
MSLEPWVAYRQHRGHKCGVFLNGPEWRFNRLRLNPEVLSPNAVQRFLPMVDAVA
RDFSQALKKKVLQNARGSLTLDVQPSIFHYTIEASNLALFGERLGLVGHSPSSASLNF
LHALEVMFKSTVQLMFMPRSLSRWTSPKVWKEHFPAWDCIFQYGDNCIQKIYQELA

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FSRPQQYTSIVAELLNAELSPDAIKANSMELTAGSVDTTVFPLLMTLFELARNPNVQ
QALRQESLAAAASISEHPQKATTELP LLRAALKETLRLYPVGLFLERVASSDLVLQNY
HIPAGVLKHLQVETLTQEDIKMVYSFILRPSMFPLLTFRAINTRTRPLEQKLISEEDLAA
NDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CYP11B1 cytochrome P450, family 11, subfamily B, polypeptide 1 [Homo sapiens (human)]

Official Symbol CYP11B1

Synonyms CYP11B1; cytochrome P450, family 11, subfamily B, polypeptide 1; CYP11B, cytochrome P450, subfamily XIB (steroid 11 beta hydroxylase), polypeptide 1; cytochrome P450 11B1, mitochondrial; CPN1; FHI; P450C11; CYPXIB1; cytochrome P450C11; cytochrome P-450c11; cytochrome p450 XIB1; steroid 11-beta-hydroxylase; steroid 11-beta-monooxygenase; cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 1; CYP11B; FLJ36771; DKFZp686B05283;

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Gene ID 1584

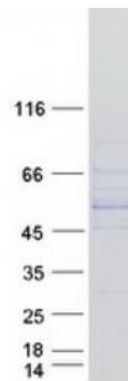
mRNA Refseq NM_001026213

Protein Refseq NP_001021384

MIM 610613

UniProt ID P15538

SDS-PAGE



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