

Recombinant Full Length Human CYP11B1 Protein, GST-tagged

Cat. No. CYP11B1-2292HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CYP11B1 full-length ORF (AAH96285.1, 1 a.a. - 574 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	574 amino acids
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	91.5 kDa
AA Sequence	MALRAKAEVCMAPWLSLQRAQALGTRAARVPRTVLPFEAMPRRPGNRWLRLLQI WREQGYEDLHLEVHQTFQELGPIFRSRHSASFGRWGRSAARAGLWRCQGRGWC RANPSSLQRGQDSEALKYDLGGAGMVCVMLPEDVEKLQQVDSLHPHRMSLEPWV AYRQHRGHKCGVFLNADRGNSSPPFPGGIHGAPTHSGCRNGPEWRFNRLRLNP

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EVLSPPNAVQRFLPMVDAVARDFSQALKKKVLQNARGSLTLDVQPSIFHYTIEASNLAL
 FGERLGLVGHSPSSASLNFLHALEVMFKSTVQLMFMPRSLSRWTSPKVVKEHFEA
 WDCIFQYGDNCIQKIYQELAFSRPQQYTSIVAELLNAELSPDAIKANSMELTAGSVD
 TTVFPLLMTLFEELARNPNVQQALRQESLAAAASISEHPQKATTELP LLRAALKETLRL
 YPVGLFLERVASSDLVLQNYHIPAGTLVRVFLYSLGRNPALFPRPERYNPQRWLDIR
 GSGRNFYHVPFGFGMRQCLGRRLAEAEMLLLLHHVLKHLQVETLTQEDIKMVYSFIL
 RPSMFPLLTFRAIN

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CYP11B1 cytochrome P450, family 11, subfamily B, polypeptide 1 [Homo sapiens]

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_000497
Protein Refseq	NP_000488
MIM	610613
UniProt ID	P15538

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