

Recombinant Human CYP11B1 protein ab158257

1 Image

Description

|                   |   |  |  |
|-------------------|---|--|--|
| Product name      | Recombinant Human CYP11B1 protein   |  |  |
| Expression system | Wheat germ  |  |  |
| Accession         | <b>P15538</b>   |  |  |
| Protein length    | Full length protein   |  |  |
| Animal free       | No  |  |  |
| Nature            | Recombinant   |  |  |
| Species           | Human   |  |  |
| Sequence          | MALRAKAEVCMAPWLSLQRAQALGTRAARVPRTVLPF<br>EAMPRRPGNRWL<br>RLLQWREQGYEDLHLEVHQTFQELGPIFRSRHSASFGRW<br>GRSAARAGLW<br>RCQGRGWCRANPSSLQRGQDSEALKYDLGGAGMVCVM<br>LPEDVEKLQQVDS<br>LPHRMSLEPWVAYRQHRGHKCGVFLLNVADRGNSSPP<br>FPGGIHGAPTHS<br>GCRNGPEWRFNRLRLNPEVLSPNAVQRFLPMVDAVARD<br>FSQALKKKVLQN<br>ARGSLTLDVQPSIFHYTIEASNLALFGERLGLVGHSPPSSAS<br>LNFLHALEV<br>MFKSTVQLMFMPRSLSRWTSPKVVKEHFEAWDCIFQYG<br>DNCIQKIYQELA<br>FSRPQQYTSTVAEILLNAELSPDAIKANSMELTAGSVDDTV<br>FLLMTLFE<br>LARNPNVQQALRQESLAAAASISEHPQKATTELP LLRAAL<br>KETLRLYPVG<br>LFLERVASSDLVLQNYHIPAGTLVRVFLYSLGRNPALFPRP<br>ERYNPQRWL<br>DIRGSGRNFYHVPFGFGMRQCLGRRLAEAEMLLLLHHVLK<br>HLQVETLTQE DIKMVYSFILRPSMFPLLTFRAIN |  |  |
| Amino acids       | 1 to 574  |  |  |
| Tags              | GST tag N-Terminus  |  |  |

Specifications

Our **Abpromise guarantee** covers the use of **ab158257** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

|                         |              |
|-------------------------|--------------|
| <b>Applications</b>     | ELISA        |
|                         | Western blot |
| <b>Form</b>             | Liquid       |
| <b>Additional notes</b> |              |

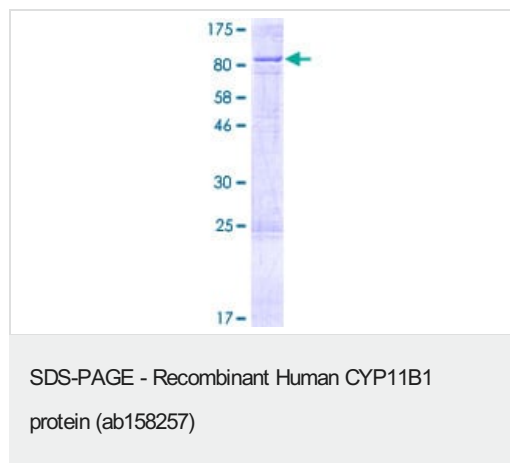
## Preparation and Storage

|                              |   |
|------------------------------|---|
| <b>Stability and Storage</b> | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. |
|                              | pH: 8.00  |
|                              | Constituents: 0.31% Glutathione, 0.79% Tris HCl   |

## General Info

|                              |  |
|------------------------------|--|
| <b>Relevance</b>             | 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 has steroid 11-beta-hydroxylase activity. In addition to this activity, the 18 or 19-hydroxylation of steroids and the aromatization of androstendione to estrone have also been ascribed to cytochrome P450 XIB. Defects in CYP11B1 are the cause of adrenal hyperplasia type 4 (AH4) [MIM:202010]. AH4 is a form of congenital adrenal hyperplasia, a common recessive disease due to defective synthesis of cortisol. Congenital adrenal hyperplasia is characterized by androgen excess leading to ambiguous genitalia in affected females, rapid somatic growth during childhood in both sexes with premature closure of the epiphyses and short adult stature. Four clinical types: "salt wasting" (SW, the most severe type), "simple virilizing" (SV, less severely affected patients), with normal aldosterone biosynthesis, "non-classic form" or late onset (NC or LOAH), and "cryptic" (asymptomatic). AH4 patients usually have hypertension. |
| <b>Cellular localization</b> | Mitochondrion inner membrane.  |

## Images



ab158257 on a 12.5% SDS-PAGE stained with Coomassie Blue.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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