abcam

Product datasheet

Recombinant Human Cytochrome P450 17A1/CYP17A1 protein ab152320

1 Image

Description

Product name	Recombinant Human Cytochrome P450 17A1/CYP17A1 protein
Expression system	Wheat germ
Accession	**P05093**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MWELVALLLLTLAYLFWPKRRCPGAKYPKSLLSLPLVGSL PFLPRHGHMH NNFFKLQKKYGPIYSVRMGTKTTVIVGHHQLAKEVLIKKGK DFSGRPQMA TLDIASNNRKGIAFADSGAHWQLHRRLAMATFALFKDGDQ KLEKIICQEI STLCDMLATHNGQSIDISFPVFVAVTNVISLICFNTSYKNGD PELNVIQN YNEGIIDNLSKDSLVDLVPWLKIFPNKTLEKLKSHVKIRNDL LNKILENY KEKFRSDSITNMLDTLMQAKMNSDNGNAGPDQDSELLSD NHILTTIGDIF GAGVETTTSVVKWTLAFLLHNPQVKKKLYEEIDQNVGFSR TPTISDRNRL LLLEATIREVLRLRPVAPMLIPHKANVDSSIGEFAVDKGTE VIINLWALH HNEKEWHQPDQFMPERFLNPAGTQLISPSVSYLPFGAGP RSCIGEILARQ ELFLIMAWLLQRFDLEVPDDGQLPSLEGIPKVVFLIDSFKV KIKVRQAWR EAQAEGST
Predicted molecular weight	82 kDa including tags
Amino acids	1 to 508

Specifications

Our **Abpromise guarantee** covers the use of **ab152320** in the following tested applications.

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

Applications	ELISA Western blot SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as Cytochrome P450 17A1.

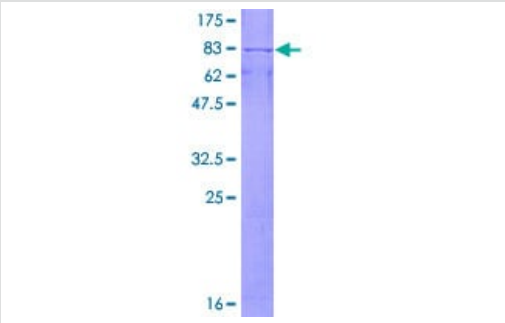
Preparation and Storage

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

General Info

Function	Conversion of pregnenolone and progesterone to their 17-alpha-hydroxylated products and subsequently to dehydroepiandrosterone (DHEA) and androstenedione. Catalyzes both the 17-alpha-hydroxylation and the 17,20-lyase reaction. Involved in sexual development during fetal life and at puberty.
Pathway	Lipid metabolism; steroid biosynthesis.
Involvement in disease	Defects in CYP17A1 are the cause of adrenal hyperplasia type 5 (AH5) [MIM:202110]. AH5 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).
Sequence similarities	Belongs to the cytochrome P450 family.
Post-translational modifications	Phosphorylation is necessary for 17,20-lyase, but not for 17-alpha-hydroxylase activity.
Cellular localization	Membrane.

Images



SDS-PAGE - Recombinant Human Cytochrome P450 17A1/CYP17A1 protein (ab152320)

12.5% SDS-PAGE analysis of ab152320 stained with Coomassie Blue.

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- Response to your inquiry within 24 hours
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