abcam

Product datasheet

Recombinant Human CYP11A1 protein ab132669

1 Image

Description

Product name	Recombinant Human CYP11A1 protein
Expression system	Wheat germ
Accession	**P05108**
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MLAKGLPPRSVLVKGCQTFLSAPREGLGRLRVPTGEGAG ISTRSPRPFNE IPSPGDNGWLNLYHFWRETGTHKVHLHHVQNFQKYGPIYR EKLGNVESVY VIDPEDVALLFKSEGPNPERFLIPPWVAYHQYYQRPIGVLL KKSAAWKKD RVALNQEVMAPEATKNFLPLLDAVSRDFVSVLHRRIKKAG SGNYSGDISD DLFRFAFESITNVIFGERQGMLEEVVNPEAQRFIDAIYQMF HTSVPMLNL PPDLFRLFRTKTWKDHVAAWDVIFSKADIYTQNFYWELRQ KGSVHHDYRG ILYRLLGDSKMSFEDIKANVTEMLAGGVDTTSMTLQWHLY EMARNLKVQD MLRAEVLAARHQAQGDMATMLQLVPLLKASIKETLRLHPI SVTLQRYLVN DLVLRDYMIPAKTLVQVAIYALGREPTFFFDPENFDPTRWL SKDKNITYF RNLGFGWGVRQCLGRRIAELEMTIFLINMLENFRVEIQHLS DVGTTFNLI LMPEKPISFTFWPFNQEATQQ
Predicted molecular weight	87 kDa including tags
Amino acids	1 to 521
Tags	GST tag N-Terminus

Specifications

Our **Abpromise guarantee** covers the use of **ab132669** 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

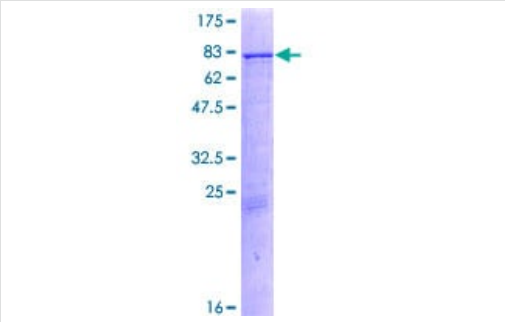
Preparation and Storage

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	Catalyzes the side-chain cleavage reaction of cholesterol to pregnenolone.
Pathway	Lipid metabolism; C21-steroid hormone metabolism.
Involvement in disease	Defects in CYP11A1 are a cause of congenital adrenal insufficiency (CAI). Defects in CYP11A1 are a cause of congenital lipoid adrenal hyperplasia (CLAH) [MIM:201710]; also known as lipoid CAH. CLAH is the most severe form of adrenal hyperplasia. This autosomal recessive and potentially lethal condition includes the onset of profound adrenocortical insufficiency shortly after birth, hyperpigmentation reflecting increased production of pro-opiomelanocortin, elevated plasma renin activity as a consequence of reduced aldosterone synthesis, and male pseudohermaphroditism resulting from deficient fetal testicular testosterone synthesis. CLAH is a rare disease, except in Japan and Korea where it accounts for a significant percentage of cases of congenital adrenal hyperplasia.
Sequence similarities	Belongs to the cytochrome P450 family.
Cellular localization	Mitochondrion membrane.

Images



SDS-PAGE - Recombinant Human CYP11A1 protein (ab132669)

12.5% SDS-PAGE analysis of ab132669 stained with Coomassie Blue

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