abcam

Product datasheet

Recombinant Human C11B2/CYP11B2 protein (His tag) ab224858

1 Image

Description

Product name	Recombinant Human C11B2/CYP11B2 protein (His tag)
Purity	> 90 % SDS-PAGE.
Expression system	Escherichia coli
Accession	P19099
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	GTRAARAPRTVLPFEAMPQHPGNRWLRLLQIWREQGYEH LHLEMHQTFQE LGPIFRYNLGGPRMVCVMLPEDVEKLQQVDSLHPCRMILE PWVAYRQHRG HKCGVFLLNGPEWRFNRLRLNPDVLSPKAVQRFLPMVD AVARDFSQALKK KVLQNARGSLTLDVQPSIFHYTIEASNLALFGERLGLVGHS PSSASLNFL HALEVMFKSTVQLMFMPRSLSRWISPKVWKEHFEAWDCI FQYGDNCIQKI YQELAFNRPQHYTGIVAELLLKAELSLEAIKANSMELTAGS VDTTAFPLL MTLFELARNPDVQQILRQESLAAAAASISEHPQKATTELPLL RAALKETLR LYPVGLFLERVVSSDLVLQNYHIPAGTLVQVFLYSLGRNAA LFPRPERYN PQRWLDIRGSGRNFHHVPFGFGMRQCLGRRLAEAEMLLL LHHVLKHFLVE TLTQEDIKMVYSFILRPGTSPLLTFRAIN
Predicted molecular weight	71 kDa including tags
Amino acids	25 to 503
Tags	His tag N-Terminus
Additional sequence information	This product is the full-length mature protein from aa 25-503 with 6xHis-SUMO tag at the N-

terminus. The transit peptide is not included.

Specifications

Our **Abpromise guarantee** covers the use of **ab224858** in the following tested applications.

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

Applications	SDS-PAGE
Form	Liquid
Additional notes	This product was previously labelled as C11B2

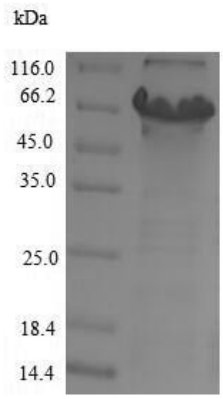
Preparation and Storage

Stability and Storage	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 7.2 Constituents: 50% Glycerol (glycerin, glycerine), Tris buffer

General Info

Function	Preferentially catalyzes the conversion of 11-deoxycorticosterone to aldosterone via corticosterone and 18-hydroxycorticosterone.
Involvement in disease	Defects in CYP11B2 are the cause of corticosterone methyloxidase type 1 deficiency (CMO-1 deficiency) [MIM:203400]; also known as aldosterone deficiency due to defect in 18-hydroxylase or aldosterone deficiency I. CMO-1 deficiency is an autosomal recessive disorder of aldosterone biosynthesis. There are two biochemically different forms of selective aldosterone deficiency be termed corticosterone methyloxidase (CMO) deficiency type 1 and type 2. In CMO-1 deficiency, aldosterone is undetectable in plasma, while its immediate precursor, 18-hydroxycorticosterone, is low or normal. Defects in CYP11B2 are the cause of corticosterone methyloxidase type 2 deficiency (CMO-2 deficiency) [MIM:610600]. CMO-2 is an autosomal recessive disorder of aldosterone biosynthesis. In CMO-2 deficiency, aldosterone can be low or normal, but at the expense of increased secretion of 18-hydroxycorticosterone. Consequently, patients have a greatly increased ratio of 18-hydroxycorticosterone to aldosterone and a low ratio of corticosterone to 18-hydroxycorticosterone in serum. Defects in CYP11B2 are a cause of familial hyperaldosteronism type 1 (FH1) [MIM:103900]. It is a disorder characterized by hypertension, variable hyperaldosteronism, and abnormal adrenal steroid production, including 18-oxocortisol and 18-hydroxycortisol. There is significant phenotypic heterogeneity, and some individuals never develop hypertension. Note=The molecular defect causing hyperaldosteronism familial type 1 is an anti-Lepore-type fusion of the CYP11B1 and CYP11B2 genes. The hybrid gene has the promoting part of CYP11B1, ACTH-sensitive, and the coding part of CYP11B2.
Sequence similarities	Belongs to the cytochrome P450 family.
Cellular localization	Mitochondrion membrane.

Images



SDS-PAGE - Recombinant Human C11B2/CYP11B2 protein (His tag) (ab224858)

(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) analysis of ab224858 with 5% enrichment gel and 15% separation gel.

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