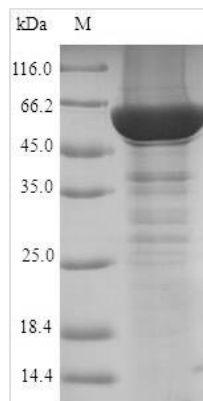




Recombinant Human Steroid 21-hydroxylase (CYP21A2)

Product Code	CSB-YP006400HU
Relevance	Specifically catalyzes the 21-hydroxylation of steroids. Required for the adrenal synthesis of mineralocorticoids and glucocorticoids.
Abbreviation	Recombinant Human CYP21A2 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P08686
Product Type	Recombinant Proteins
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	<p>MLLLGLLLLPLLAGARLLWNWWKLRSLLHPLAPGFLHLLQPDLPYLLGLTQK</p> <p>FGPIYRLHLGLQDVVVLNSKRTIEEAMVKKWADFAGRPEPLTYKLVSKNYPDL</p> <p>SLGDYSLLWKAHKKLTRSALLLGIRDSMEPVVEQLTQEFCEMRAPGTPVAI</p> <p>EEEFSLTCSIICYLTFGDKIKDDNLMPAYYKCIQEVLTWWSIQIVDVIPFLR</p> <p>FFPNPGLRRLKQAIEKRDHIVEMQLRQHKESLVAGQWRDMMDYMLQGVAQP</p> <p>SMEEGSGQLLEGHVHMAAVDLLIGGTETTANTLSWAVVFLHHPHPEIQRLQEE</p> <p>LDHELPGGASSSRVPYKDRARLPLLNATIAEVLRLRPVPLALPHRTTRPSSIS</p> <p>GYDIPEGTVIIPNLQGAHLDETVPWERPHEFWPDRFLEPGKNSRALAFGCGARV</p> <p>CLGEPLARLELFVVLTRLLQAFTLLPSGDALPSLQPLPHCSVILKMQPFQVRLQ</p> <p>PRGMGAHSPGQNNQ</p>
Research Area	Signal Transduction
Source	Yeast
Target Names	CYP21A2
Protein Names	Recommended name: Steroid 21-hydroxylase EC= 1.14.99.10Alternative name(s): 21-OHase Cytochrome P-450c21 Cytochrome P450 21 Cytochrome P450 XXI Cytochrome P450-C21 Cytochrome P450-C21B
Expression Region	1-494aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	57.9kDa
Protein Length	Full Length
Image	



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

Description

A DNA sequence encoding the full-length human Steroid 21-hydroxylase (CYP21A2) protein was fused with a 6xHis tag at the N-terminus and then expressed in the yeast. The forming protein is the Recombinant Human CYP21A2 protein, which contains 494 amino acids. Its purity was measure by SDS-PAGE and reached up to 90%. This in-stock recombinant CYP21A2 protein is not only used for antibody synthesis but also in the studies of signal transduction.

CYP21A2, a member of the microsomal cytochrome P450 family, is a critical enzyme of the glucocorticoid and mineralocorticoid biosynthesis in the adrenal cortex. Mutations in the CYP21A2 gene lead to abrupt truncations of the protein per se and further severely damage enzymatic activity, resulting in salt-wasting (SW) congenital adrenal hyperplasia (CAH).

Shelf Life

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