

Datasheet for ABIN7562738
CYP21A2 Protein (AA 1-487) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | CYP21A2 |
| Protein Characteristics: | AA 1-487 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CYP21A2 protein is labelled with His tag. |

Product Details

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|--------------|---|
| Purpose: | Custom-made recombinant Cyp21 Protein expressed in mammalian cells. |
| Sequence: | <p>MLLPGLLLLL LLLAGTRWLW GQWKLRLHL PPLAPGFLHF LQPNLPIYLL GLTQKLGPIY RIRLGMQDVV VLNSNRTIEE ALIQKWVDFAGRPHMLNGKMDLDLSLGDYS LMWKAHKKLS RSALMLGMRD SMEPLIEQLT QEFCERMRAQ AGTPVAIHKE FSFLTCSIIS CLTFGDKDST LVQTLHDCVQ DLLQAWNHWS IQILTIIPLL RFLPNPGLQK LKQIQESRDH IVKQQLKQHK DSLVAGQWKD MIDYMLQGVE KQRDGKDEER LHEGHVHMSV VDLFIGGTET TATTLWAVA FLLHHPEIQK RLQEELDLKL GPGSQLLYRN RMQLPLLMAT IAEVLRLRPV VPLALPHRAT RASSISGYDI PKDMVIIPNI QGANLDEMWW ELPSKFWPDR FLEPGKNPRT PSFGCGARVC LGEPLARLEL FVVLARLLQA FTLLPPPDTG LPSLQPQPYA GINLPIPPFQ VRLQPRNLAP QDQGERP</p> <p>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different |

Product Details

isoform, please contact us regarding an individual offer.

Characteristics:

Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade:

custom-made

Target Details

Target:

CYP21A2

Alternative Name:

Cyp21 ([CYP21A2 Products](#))

Background:

Steroid 21-hydroxylase (EC 1.14.14.16) (21-OHase) (Cytochrome P-450c21) (Cytochrome P450 21) (Cytochrome P450 XXI) (Cytochrome P450-C21),FUNCTION: A cytochrome P450 monooxygenase that plays a major role in adrenal steroidogenesis. Catalyzes the hydroxylation at C-21 of progesterone and 17alpha-hydroxyprogesterone to respectively form 11-deoxycorticosterone and 11-deoxycortisol, intermediate metabolites in the biosynthetic pathway of mineralocorticoids and glucocorticoids. Mechanistically, uses molecular oxygen inserting one oxygen atom into a substrate, and reducing the second into a water molecule, with two electrons provided by NADPH via cytochrome P450 reductase (CPR, NADPH-ferrihemoprotein reductase). {ECO:0000250|UniProtKB:P00191, ECO:0000250|UniProtKB:P08686}.

Molecular Weight:

55.3 kDa

Target Details

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| UniProt: | P03940 |
| Pathways: | Metabolism of Steroid Hormones and Vitamin D , Steroid Hormone Biosynthesis , C21-Steroid Hormone Metabolic Process |

Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |