# Cytochrome P450 3a43 (CYP3A43) Human Recombinant Protein

## PRODUCT OVERVIEW

| | |
|---|---|
| **Product Name** | Cytochrome P450 3A43 (CYP3A43), Recombinant Protein |
| **Full Product Name** | Recombinant Human Cytochrome P450 3A43 (CYP3A43) |
| **Product Gene Name** | CYP3A43 recombinant protein |
| **Product Synonym Gene Name** | CYP3A43 |
| **Sequence** | MDLIPNFAME TWVLVATSLV LLYIYGTHSH KLFKKLGIPG PTPLPFLGTI LFYLRRSLNK IPSWAWWLTP VIPALWEAEA GGSPKVRSSR PALPTWVFGI LTENVMKNTE KCGALFPFLT PVFEALNIGL FPKDVTHFLK NSIERMKESR LKDKQKHRVD FFQQMIDSQN SKETKSHKAL SDLELVAQSI IIIFAAYDTT STTLPFIMYE LATHPDVQQK LQEEIDAVLP NKAPVTYDAL VQMEYLDMVV NETLRLFPVV SRVTRVCKKD IEINGVFIPK GLAVMVPIYA LHHDPKYWTE PEKFCPERFS KKNKDSIDLY RYIPFGAGPR NCIGMRFALT NIKLAVIRAL QNFSFKPCKE TQIPLKLDNL PILQPEKPIV LKVHLRDGIT SGP |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 44,808 Da |
| **Sequence Positions** | 1-393, full length of Isoform 7 |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **OMIM** | 606534 |
| **3D Structure** | ModBase 3D Structure for Q9HB55 |
| **Species** | Human |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for CYP3A43 recombinant protein** | This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. This enzyme has a low level of testosterone hydroxylase activity. Although it bears homology to some drug-metabolizing cytochrome P450s, it is unknown whether the enzyme is also involved in xenobiotic metabolism. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Alternate splicing of this gene results in three transcript variants encoding different isoforms. |
| **Other Notes** | Small volumes of CYP3A43 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply. |
| **Searchable Terms for CYP3A43 purchase** | MBS1305087 is a recombinant protein targeting CYP3A43. Also known as Recombinant Human Cytochrome P450 3A43 (CYP3A43). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CYP3A43. It may not necessarily be applicable to this product.

| | |
|---|---|
| **NCBI GI #** | 525458843 |
| **NCBI GeneID** | 64816 |
| **NCBI Accession #** | NP_001265850.1 |
| **UniProt Primary Accession #** | Q9HB55 |
| **UniProt Secondary Accession #** | Q495Y1; Q75MK2; Q75MK3; Q9HB52; Q9HB53; Q9HB54; Q9HB57 |
| **UniProt Related Accession #** | Q9HB55 |
| **GenBank Nucleotide #** | NM_001278921.1 |
| **NCBI Official Full Name** | cytochrome P450 3A43 isoform 4 |
| **NCBI Official Synonym Full Names** | cytochrome P450 family 3 subfamily A member 43 |
| **NCBI Official Symbol** | CYP3A43 |
| **UniProt Protein Name** | Cytochrome P450 3A43 |
| **Protein Family** | Cytochrome |
| **UniProt Gene Name** | CYP3A43 |
| **NCBI Protein Information** | cytochrome P450 3A43 |
| **NCBI Summary for CYP3A43** | This gene encodes a member of the cytochrome P450 superfamily of enzymes. The cytochrome P450 proteins are monooxygenases which catalyze many reactions involved in drug metabolism and synthesis of cholesterol, steroids and other lipids. The encoded protein has a low level of testosterone hydroxylase activity, and may play a role in aging mechanisms and cancer progression. This gene is part of a cluster of cytochrome P450 genes on chromosome 7q21.1. Alternate splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2013] |
| **UniProt Comments for CYP3A43** | Exhibits low testosterone 6-beta-hydroxylase activity.MiscellaneousChimeric transcripts, characterized by CYP3A43 exon 1 joined at canonical splice sites to distinct sets of CYP3A4 or CYP3A5 exons, have been detected. All are possibly produced by trans-splicing. CYP3A43-CYP3A4 chimeric transcripts exist in 3 different combinations: CYP3A43 exon 1 joined in frame to CYP3A4 exons 2-13, CYP3A43 exon 1 joined in frame to CYP3A4 exons 4-13 and CYP3A43 exon 1 joined in frame to CYP3A4 exon 7-13. The longest chimeric isoform (CYP3A43 exon 1 joined to CYP3A4 exons 2-13) exhibits 6-beta-hydroxylase activity, while a shorter isoform (CYP3A43 exon 1 joined to CYP3A4 exons 4-13) does not. CYP3A43-CYP3A5 chimeric transcripts exist in 2 different combinations: CYP3A43 exon 1 joined in frame to CYP3A5 exon 11-13 and CYP3A43 exon 1 joined in frame to CYP3A5 exon 12-13. All chimeric transcripts are expressed at very low levels in the liver (PubMed:11726664). |
| **Research Articles on CYP3A43** | **1.** Mutations in CYP3A43 gene is associated with prostate cancer. |
| **Precautions** | All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines. |
| **Disclaimer** | While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice.<br><br>It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information. |

| | |
|---|---|
| **Product Note** | Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details. |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures.

**MyBioSource** | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/recombinant-protein/cytochrome-p450-3a43-cyp3a43/1305087