Cytochrome P450 26b1 (CYP26B1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Cytochrome P450 26B1 (Cyp26b1), Recombinant Protein
Full Product Name	Recombinant Mouse Cytochrome P450 26B1 (Cyp26b1)
Product Gene Name	Cyp26b1 recombinant protein
Product Synonym Gene Name	Cyp26b1
Sequence	MLFEGLELVS ALATLAACLV SVTLLLAVSQ QLWQLRWAAT RDKSCKLPIP KGSMGFPLIG ETGHWLLQGS GFQSSRREKY GNVFKTHLLG RPLIRVTGAE NVRKILLGEH QLVSTEWPRS ARVLLGPNTV ANSIGDIHRN KRKVFSKIFS HEALESYLPK IQLVIQDTLR AWSSQPEAIN VYQEAQRLTF RMAVRVLLGF SIPEEDLGHL FEVYQQFVEN VFSLPVDLPF SGYRRGIQAR QILQKGLEKA IREKLQCTQG KDYSDALDIL IESSKEHGKE MTMQELKDGT LELIFAAYAT TASASTSLIM QLLKHPAVLE KLREELRAQG LLHGGGCPCE GTLRLDTLSS LRYLDCVIKE VMRLFTPVSG GYRTVLQTFE LDGFQIPKGW SVMYSIRDTH DTAPVFKDVN VFDPDRFSQA RSEDKDGRFH YLPFGGGVRT CLGKHLAKLF LKVLAVELAS TSRFELATRT FPRITLVPVL HPVDGLSVKF FGLDSNQNEI LPETEAMLSA TV
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	57,375 Da
Sequence Positions	1-512, Full length protein
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.
3D Structure	ModBase 3D Structure for Q811W2
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Cyp26b1 recombinant protein	MBS1347022 is a recombinant protein targeting Cyp26b1. Also known as Recombinant Mouse Cytochrome P450 26B1 (Cyp26b1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Cyp26b1 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cyp26b1. It may not necessarily be applicable to this product.

NCBI GI #	295148144
NCBI GeneID	232174

NCBI Accession #	NP_001171184.1
UniProt Primary Accession #	Q811W2
UniProt Secondary Accession #	Q3TM12
UniProt Related Accession #	Q811W2
GenBank Nucleotide #	NM_001177713.1
NCBI Official Full Name	cytochrome P450 26B1
NCBI Official Synonym Full Names	cytochrome P450, family 26, subfamily b, polypeptide 1
NCBI Official Symbol	Cyp26b1
NCBI Official Synonym Symbols	CP26; P450RAI-2
UniProt Protein Name	Cytochrome P450 26B1
UniProt Synonym Protein Names	Cytochrome P450 retinoic acid-inactivating 2; Cytochrome P450RAI-2
Protein Family	Cytochrome
UniProt Gene Name	Cyp26b1
UniProt Synonym Gene Names	Cytochrome P450RAI-2
NCBI Protein Information	cytochrome P450 26B1
UniProt Comments for Cyp26b1	Involved in the metabolism of retinoic acid (RA), rendering this classical morphogen inactive through oxidation. Involved in the specific inactivation of all-trans-retinoic acid (all-trans-RA), with a preference for the following substrates: all-trans-RA > 9-cis-RA > 13-cis-RA. Generates several hydroxylated forms of RA, including 4-OH-RA, 4-oxo-RA, and 18-OH-RA. Essential for postnatal survival. Plays a central role in germ cell development: acts by degrading RA in the developing testis, preventing STRA8 expression, thereby leading to delay of meiosis. Required for the maintenance of the undifferentiated state of male germ cells during embryonic development in Sertoli cells, inducing arrest in G0 phase of the cell cycle and preventing meiotic entry. Plays a role in skeletal development, both at the level of patterning and in the ossification of bone and the establishment of some synovial joints.
Research Articles on Cyp26b1	**1.** elimination of CYP26B1 activity within both germ and Sertoli cells resulted in severe male subfertility, with a loss of advanced germ cells from the seminiferous epithelium.
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