Prolyl 4-Hydroxylase Subunit Alpha-2 (P4HA2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Prolyl 4-hydroxylase subunit alpha-2 (P4ha2), Recombinant Protein
Full Product Name	Recombinant Mouse Prolyl 4-hydroxylase subunit alpha-2 (P4ha2)
Product Gene Name	P4ha2 recombinant protein
Product Synonym Gene Name	P4ha2
Sequence	EFFTSIGHMT DLIYAEKDLV QSLKEYILVE EAKLAKIKSW ASKMEALTSR SAADPEGYLA HPVNAYKLVK RLNTDWPALG DLVLQDASAG FVANLSVQRQ FFPTDEDESG AARALMRLQD TYKLDPDTIS RGELPGTKYQ AMLSVDDCFG LGRSAYNEGD YYHTVLWMEQ VLKQLDAGEE ATVTKSLVLD YLSYAVFQLG DLHRAVELTR RLLSLDPSHE RAGGNLRYFE RLLEEERGKS LSNQTDAGLA TQENLYERPT DYLPERDVYE SLCRGEGVKL TPRRQKKLFC RYHHGNRVPQ LLIAPFKEED EWDSPHIVRY YDVMSDEEIE RIKEIAKPKL ARATVRDPKT GVLTVASYRV SKSSWLEEDD DPVVARVNRR MQHITGLTVK TAELLQVANY GMGGQYEPHF DFSRSDDEDA FKRLGTGNRV ATFLNYMSDV EAGGATVFPD LGAAIWPKKG TAVFWYNLLR SGEGDYRTRH AACPVLVGCK WVSNKWFHER GQEFLRPCGT TEVD
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	60,812 Da
Sequence Positions	24-537, 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 Q60716
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for P4ha2 recombinant protein	This gene encodes a component of prolyl 4-hydroxylase, a key enzyme in collagen synthesis composed of two identical alpha subunits and two beta subunits. The encoded protein is one of several different types of alpha subunits and provides the major part of the catalytic site of the active enzyme. In collagen and related proteins, prolyl 4-hydroxylase catalyzes the formation of 4-hydroxyproline that is essential to the proper three-dimensional folding of newly synthesized procollagen chains. Alternatively spliced transcript variants encoding different isoforms have been described.
Other Notes	Small volumes of P4ha2 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 P4ha2 purchase	MBS1337608 is a recombinant protein targeting P4ha2. Also known as Recombinant Mouse Prolyl 4-hydroxylase subunit alpha-2 (P4ha2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for P4ha2. It may not necessarily be applicable to this product.

NCBI GI #	209862961
NCBI GeneID	18452
NCBI Accession #	NP_001129548.1
UniProt Primary Accession #	Q60716
UniProt Secondary Accession #	Q8VBU4
UniProt Related Accession #	Q60716
GenBank Nucleotide #	NM_001136076.2
NCBI Official Full Name	prolyl 4-hydroxylase subunit alpha-2 isoform 1
NCBI Official Synonym Full Names	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide
NCBI Official Symbol	P4ha2
NCBI Official Synonym Symbols	P4hl; C76437; AA407196
UniProt Protein Name	Prolyl 4-hydroxylase subunit alpha-2
UniProt Synonym Protein Names	Procollagen-proline,2-oxoglutarate-4-dioxygenase subunit alpha-2
Protein Family	Prolyl 4-hydroxylase
UniProt Gene Name	P4ha2
UniProt Synonym Gene Names	4-PH alpha-2
NCBI Protein Information	prolyl 4-hydroxylase subunit alpha-2
UniProt Comments for P4ha2	Catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins.
Research Articles on P4ha2	**1.** Impaired extracellular matrix is the primary cause of death of C-P4H-I+/-;C-P4H-II-/- growth plate chondrocytes.
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.
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