Homeobox Protein SIX5 (SIX5) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	Homeobox protein SIX5 (SIX5), Recombinant Protein
Full Product Name	Recombinant Human Homeobox protein SIX5 (SIX5)
Product Gene Name	SIX5 recombinant protein
Product Synonym Gene Name	SIX5
Sequence	MATLPAEPSA GPAAGGEAVA AAAATEEEEE EARQLLQTLQ AAEGEAAAAA GAGAGAAAAG AEGPGSPGVP GSPPEAASEP PTGLRFSPEQ VACVCEALLQ AGHAGRLSRF LGALPPAERL RGSDPVLRAR ALVAFQRGEY AELYRLLESR PFPAAHHAFL QDLYLRARYH EAERARGRAL GAVDKYRLRK KFPLPKTIWD GEETVYCFKE RSRAALKACY RGNRYPTPDE KRRLATLTGL SLTQVSNWFK NRRQRDRTGA GGGAPCKSES DGNPTTEDES SRSPEDLERG AAPVSAEAAA QGSIFLAGTG PPAPCPASSS ILVNGSFLAA SGSPAVLLNG GPVIINGLAL GEASSLGPLL LTGGGGAPPP QPSPQGASET KTSLVLDPQT GEVRLEEAQS EAPETKGAQV AAPGPALGEE VLGPLAQVVP GPPTAATFPL PPGPVPAVAA PQVVPLSPPP GYPTGLSPTS PLLNLPQVVP TSQVVTLPQA VGPLQLLAAG PGSPVKVAAA AGPANVHLIN SGVGVTALQL PSATAPGNFL LANPVSGSPI VTGVALQQGK IILTATFPTS MLVSQVLPPA PGLALPLKPE TAISVPEGGL PVAPSPALPE AHALGTLSAQ QPPPAAATTS STSLPFSPDS PGLLPNFPAP PPEGLMLSPA AVPVWSAGLE LSAGTEGLLE AEKGLGTQAP HTVLRLPDPD PEGLLLGATA GGEVDEGLEA EAKVLTQLQS VPVEEPLEL
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	74,562 Da
Sequence Positions	1-739, 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.
OMIM	600963
3D Structure	ModBase 3D Structure for Q8N196
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SIX5 recombinant protein	This protein is a homeodomain-containing transcription factor that appears to function in the regulation of organogenesis. This gene is located downstream of the dystrophia myotonica-protein kinase gene. Mutations in this gene are a cause of branchiootorenal syndrome type 2.
Other Notes	Small volumes of SIX5 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 SIX5 purchase	MBS1436743 is a recombinant protein targeting SIX5. Also known as Recombinant Human Homeobox protein SIX5 (SIX5). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SIX5. It may not necessarily be applicable to this product.

NCBI GI #	40354216
NCBI GeneID	147912
NCBI Accession #	NP_787071.2
UniProt Primary Accession #	Q8N196
UniProt Related Accession #	Q8N196
GenBank Nucleotide #	NM_175875.4
NCBI Official Full Name	homeobox protein SIX5
NCBI Official Synonym Full Names	SIX homeobox 5
NCBI Official Symbol	SIX5
NCBI Official Synonym Symbols	BOR2; DMAHP
UniProt Protein Name	Homeobox protein SIX5
UniProt Synonym Protein Names	DM locus-associated homeodomain protein; Sine oculis homeobox homolog 5
Protein Family	Homeobox protein
UniProt Gene Name	SIX5
UniProt Synonym Gene Names	DMAHP
NCBI Protein Information	homeobox protein SIX5
NCBI Summary for SIX5	The protein encoded by this gene is a homeodomain-containing transcription factor that appears to function in the regulation of organogenesis. This gene is located downstream of the dystrophia myotonica-protein kinase gene. Mutations in this gene are a cause of branchiootorenal syndrome type 2. [provided by RefSeq, Jul 2009]
UniProt Comments for SIX5	Transcription factor that is thought to be involved in regulation of organogenesis. May be involved in determination and maintenance of retina formation. Binds a 5'-GGTGTCAG-3' motif present in the ARE regulatory element of ATP1A1. Binds a 5'-TCA[AG][AG]TTNC-3' motif present in the MEF3 element in the myogenin promoter, and in the IGFBP5 promoter (). Thought to be regulated by association with Dach and Eya proteins, and seems to be coactivated by EYA1, EYA2 and EYA3 ().
Research Articles on SIX5	**1.** the higher expressions of SIX1-5 were associated with the greater possibility of the tumorigenesis in lung neoplasms
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