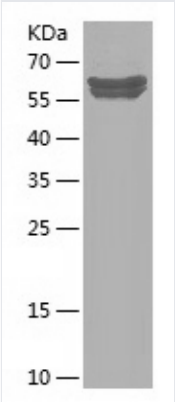
DLX5 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	DLX5, Recombinant Protein
Full Product Name	Recombinant Human DLX5
Product Gene Name	DLX5 recombinant protein
Product Synonym Names	distal less homeobox 5; DLX5; Homeobox protein DLX 5
Host	E Coli
Form/Format	Lyophilized from a 0.2 um filtered solution in 10 mM Hepes, 500 mM NaCl with 5% trehalose and 0.06% proclin, pH7.4
Purity/Purification	Greater than 90% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	31,540 Da
Sequence Positions	1-289
Chromosome Location	Chromosome: 7; NC_000007.13 (96649702..96654143, complement). Location: 7q22
OMIM	220600
3D Structure	ModBase 3D Structure for P56178
Species	Human
Tag	N-terminal His-IF2DI Tag
Reconstitution	Centrifuge the vial at 10,000 rpm for 1 minute, reconstitute at 200 ug/ml in sterile distilled water by gentle pipetting 2-3 times, don't vortex
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for DLX5 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for DLX5 recombinant protein	MBS7615977 is a recombinant protein targeting DLX5. Also known as Recombinant Human DLX5. Host: E Coli.
Other Notes	Small volumes of DLX5 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.



SDS-Page of DLX5 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DLX5. It may not necessarily be applicable to this product.

NCBI GI #	4885187
NCBI GeneID	1749
NCBI Accession #	NP_005212.1
UniProt Primary Accession #	P56178
UniProt Secondary Accession #	Q9UPL1
UniProt Related Accession #	P56178
GenBank Nucleotide #	NM_005221.5
NCBI Official Full Name	homeobox protein DLX-5
NCBI Official Synonym Full Names	distal-less homeobox 5
NCBI Official Symbol	DLX5
NCBI Official Synonym Symbols	SHFM1D
UniProt Protein Name	Homeobox protein DLX-5
Protein Family	Homeobox protein
UniProt Gene Name	DLX5
UniProt Entry Name	DLX5_HUMAN
NCBI Protein Information	homeobox protein DLX-5; distal-less homeo box 5; split hand/foot malformation type 1 with sensorineural hearing loss
NCBI Summary for DLX5	This gene encodes a member of a homeobox transcription factor gene family similiar to the Drosophila distal-less gene. The encoded protein may play a role in bone development and fracture healing. Mutation in this gene, which is located in a tail-to-tail configuration with another member of the family on the long arm of chromosome 7, may be associated with split-hand/split-foot malformation. [provided by RefSeq, Jul 2008]

UniProt Comments for DLX5	DLX5: Transcriptional factor involved in bone development. Acts as an immediate early BMP-responsive transcriptional activator essential for osteoblast differentiation. Stimulates ALPL promoter activity in a RUNX2-independent manner during osteoblast differentiation. Stimulates SP7 promoter activity during osteoblast differentiation. Promotes cell proliferation by up-regulating MYC promoter activity. Involved as a positive regulator of both chondrogenesis and chondrocyte hypertrophy in the endochondral skeleton. Binds to the homeodomain-response element of the ALPL and SP7 promoter. Binds to the MYC promoter. Requires the 5'-TAATTA-3' consensus sequence for DNA-binding. Defects in DLX5 are the cause of split-hand/foot malformation type 1, with sensorineural hearing loss (SHFM1D). A disease characterized by the association of split- hand/foot malformation with deafness. Split-hand/foot malformation is a limb malformation involving the central rays of the autopod and presenting with syndactyly, median clefts of the hands and feet, and aplasia and/or hypoplasia of the phalanges, metacarpals, and metatarsals. Some patients have been found to have mental retardation, ectodermal and craniofacial findings, and orofacial clefting. Belongs to the distal-less homeobox family. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 7q22 Cellular Component: cytoplasm; nuclear chromatin Biological Process: nervous system development; axon guidance; inner ear morphogenesis; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; olfactory pit development; palate development; BMP signaling pathway; osteoblast differentiation; cell proliferation; positive regulation of osteoblast differentiation; epithelial cell differentiation; anatomical structure formation; skeletal development; positive regulation of epithelial cell proliferation; embryonic limb morphogenesis; endochondral ossification Disease: Split-hand/foot Malformation 1 With Sensorineural Hearing Loss, Autosomal Recessive
Research Articles on DLX5	**1.** The strongest evidence for altered methylation patterns in shiftworkers was observed for DLX5 gene.
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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