

Recombinant Human LMX1B, His-tagged

Cat. No. LMX1B-237H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	LMX1B, 1-395aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-395aa
Description	LMX1B is a member of LIM-homeodomain family of proteins containing two N-terminal zinc-binding LIM domains, 1 homeodomain, and a C-terminal glutamine-rich domain. It functions as a transcription factor, and is essential for the normal development of dorsal limb structures, the glomerular basement membrane, the anterior segment of the eye, and dopaminergic and serotonergic neurons. Mutations in this gene are associated with nail-patella syndrome. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Recombinant human LMX1B protein, fused to His-tag at N-terminus, was expressed in E.coli .
Form	iquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	46.5 kDa (418 aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMDIATGP ESLERCFPRG QTDCAKMLDG IKMEEHALRP GPATLGVLLG SDCPHPAVCE GCQRPISDRF LMRVNESSWH EECLQCAACQ QALTTSCYFR DRKLYCKQDY QQLFAAKCSG CMEKIAPTEF VMRALECVYH LGCFCCCVCE RQLRKGDEFV LKEGQLLCKG DYEKEKDLLS

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SVSPDES DSV KSEDEDGDMK PAKGQGSQSK GSGDDGKDPR RPKRPRTILT
 TQQRRAFKAS FEVSSKPCRK VRETLAAETG LSVRVVQVWF QNQRAKMKKL
 ARRHHQQQEQ QNSQRLGQEV LSSRMEGMMA SYTPLAPPQQ QIVAMEQSPY
 GSSDPFQQGL TPPQMPGNDG IFHDIDS DTS LSLSDCFLG SSDVGSLQAR
 VGNPIDRLYS MQSSYFAS

Purity >80 % by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 1.0 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [LMX1B LIM homeobox transcription factor 1, beta \[Homo sapiens \]](#)

Official Symbol LMX1B

Synonyms LMX1B; LIM homeobox transcription factor 1, beta; NPS1; LIM homeobox transcription factor 1-beta; LMX-1.2; LIM/homeobox protein 1.2; LIM/homeobox protein LMX1B; LMX1.2; MGC138325; MGC142051;

Gene ID [4010](#)

mRNA Refseq [NM_001174146](#)

Protein Refseq [NP_001167617](#)

MIM [602575](#)

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UniProt ID	O60663
Chromosome Location	9q33.3
Pathway	SIDS Susceptibility Pathways, organism-specific biosystem;
Function	metal ion binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; zinc ion binding;

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