Recombinant human LMX1B protein

Catalog Number: ATGP2730

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-395aa

UniProt No.
O60663

NCBI Accession No.
NP_002307

Alternative Names
LIM homeobox transcription factor 1-beta isoform 1, LIM homeobox transcription factor 1 beta, LMX1.2, NPS1

PRODUCT SPECIFICATION

Molecular Weight
46.5 kDa (418aa)

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity
> 80% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE,Denatured

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

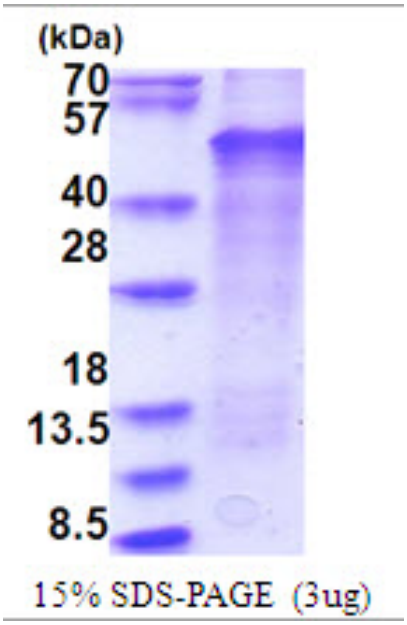
MGSSHHHHHH SSGLVPRGSH MGSMDIATGP ESLERCFPRG QTDCAKMLDG IKMEEHALRP GPATLGVLLG SDCPHPAVCE GCQRPISDRF LMRVNESSWH EECLQCAACQ QALTTSCYFR DRKLYCKQDY QQLFAAKCSG CMEKIAPTEF VMRALECVYH LGCFCCCVCE RQLRKGDEFV LKEGQLLCKG DYEKEKDLLS SVSPDESDSV KSEDEDGDMK PAKGQGSQSK GSGDDGKDPR RPKRPRTILT TQQRRAFKAS FEVSSKPCRK VRETLAAETG LSVRVVQVWF QNQRAKMKKL ARRHQQQQEQ QNSQRLGQEV LSSRMEGMMA SYTPLAPPQQ QIVAMEQSPY GSSDPFQQGL TPPQMPGNDS IFHDIDSDTS LTSLSDCFLG SSDVGSLQAR VGNPIDRLYS MQSSYFAS

General References

Vollrath D., Jaramillo-babb V L., et al. (1998). Hum. Mol. Genet. 7:1091-1098

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.