

LMX1B, 1-395aa, Human, His tag, E.coli

Cat.NO.: TP02839

3th Edition

Synonyms:LIM homeobox transcription factor 1-beta isoform 1, LIM homeobox transcription factor 1 beta, LMX1.2, NPS1

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 Weight:46.5 kDa (418 aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMDIATGPESLERCFPRGQTDCAKMLDGIKMEEHALRPGPATLGVLLGSDCP
HPAVCEGCQRPISDRFLMRVNESSWHEECLQCAACQALTTSCYFRDRKLYCKQDYQQLFAAKCSGCMEKIAPT
EFVMRALECVYHLGCFCCVCERQLRKGDEFVLKEGQLLCKGDYEKEKDLLSSVSPDES SVKSEDEDGDMKPA
KGQGSQSKGSGDDGKDPRRPKRPRTILTTQRRRAFKASFEVSSKPCRKVRETLAAETGLSVRVVQVWFQNQRAK
MKKLARRHQQQEQQNSQRLGQEVLSRMEGMMASYTPLAPPQQQIVAMEQSPYGSSDPFQQGLTPPQMPGN
DSIFHDIDSDTSLTSLSDCFLGSSDVGSLQARVGNPIDRLYSMQSSYFAS

Purity:> 95% by HPLC

Concentration:1.0 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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