

Recombinant Human LMX1A

Cat. No. LMX1A-29601TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human LMX1A (aa 1-100) with N-terminal proprietary tag, 37.07 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	Insulin is produced exclusively by the beta cells in the islets of Langerhans in the pancreas. The level and beta-cell specificity of insulin gene expression are regulated by a set of nuclear genes that bind to specific sequences within the promoter of the insulin gene (INS; MIM 176730) and interact with RNA polymerase to activate or repress transcription. LMX1 is a homeodomain protein that binds an A/T-rich sequence in the insulin promoter and stimulates transcription of insulin (German et al.
Molecular Weight	37.070kDa inclusive of tags
Tissue specificity	Isoform 1 is expressed in many tissues. Not found in heart, liver, spleen and testis. Relatively highly expressed in fetal brain. Isoform LMX1A-4B is expressed in testis.
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MEGIMNPYTALPTPQQLLAIEQSVYSSDPFRQGLTPPQMPPGDHMHYPYGAEPLFHDLDSDDTSLSNLGDCLATSEAGPLQSRVGNPIDHLYSMQNSYFTS
Sequence Similarities	Contains 1 homeobox DNA-binding domain.Contains 2 LIM zinc-binding domains.

GENE INFORMATION

Gene Name	LMX1A LIM homeobox transcription factor 1, alpha [Homo sapiens]
Official Symbol	LMX1A
Synonyms	LMX1A; LIM homeobox transcription factor 1, alpha; LMX1; LIM homeobox transcription factor 1-alpha; LMX1.1;
Gene ID	4009
mRNA Refseq	NM_001174069
Protein Refseq	NP_001167540
MIM	600298
Uniprot ID	Q8TE12
Chromosome Location	1q24.1

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Function

metal ion binding; sequence-specific DNA binding; sequence-specific DNA binding
transcription factor activity; zinc ion binding;

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