

LIM homeobox transcription factor 1, alpha, also known as LMX1A, is a protein which in humans is encoded by the LMX1A gene.

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 and interact with RNA polymerase to activate or repress transcription. LMX1 is a LIM homeobox transcription factor that binds an A/T-rich sequence in the insulin promoter and stimulates transcription of insulin.

LMX1A has been shown to interact with TCF3 and LHX3.

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Last update: **2024/06/07 02:52**

