

# Recombinant Human ISL1

Cat. No. ISL1-28841TH Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant fragment corresponding to amino acids 1-100 of Human Islet 1 refolded to soluble form; 100 amino acids, Predicted MWt 11.5 kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	100 amino acids
<b>Description</b>	This gene encodes a member of the LIM/homeodomain family of transcription factors. The encoded protein binds to the enhancer region of the insulin gene, among others, and may play an important role in regulating insulin gene expression. The encoded protein is central to the development of pancreatic cell lineages and may also be required for motor neuron generation. Mutations in this gene have been associated with maturity-onset diabetes of the young.
<b>Molecular Weight</b>	11.500kDa
<b>Tissue specificity</b>	Expressed in subsets of neurons of the adrenal medulla and dorsal root ganglion, inner nuclear and ganglion cell layers in the retina, the pineal and some regions of the brain.
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE

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<b>Storage buffer</b>	Preservative: None Constituents: high-salt-PBS, 8.1mM Dibasic monohydrogen sodium phosphate, 500mM Sodium chloride, 2.7mM Potassium chloride, 1.5mM Monobasic dihydrogen potassium phosphate, pH 7.4
<b>Storage</b>	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequence Similarities</b>	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	ISL1 ISL LIM homeobox 1 [ Homo sapiens ]
<b>Official Symbol</b>	ISL1
<b>Synonyms</b>	ISL1; ISL LIM homeobox 1; ISL1 transcription factor, LIM/homeodomain, (islet 1); insulin gene enhancer protein ISL-1; Isl 1; ISLET1;
<b>Gene ID</b>	3670
<b>mRNA Refseq</b>	NM_002202
<b>Protein Refseq</b>	NP_002193
<b>MIM</b>	600366
<b>Uniprot ID</b>	P61371
<b>Chromosome Location</b>	5q11.2
<b>Pathway</b>	Heart Development, organism-specific biosystem; Incretin Synthesis, Secretion, and

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Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Regulation of Insulin Secretion, organism-specific biosystem;

**Function**

RNA polymerase II activating transcription factor binding; RNA polymerase II transcription coactivator activity; bHLH transcription factor binding; chromatin binding; enhancer sequence-specific DNA binding;

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