

# Recombinant Human ISL1

**Cat. No.** ISL1-129H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human ISL1 protein fragment (AA 1-100) was expressed in E. coli and refolded to soluble form.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-100 a.a.
<b>Description</b>	ISL1 is a transcription factor that has been shown to bind a cis-acting domain of the insulin gene enhancer. It contains two N-terminal LIM zinc-binding domains, and one homeobox DNA-binding domain. During embryonic development, ISL1 has been identified as a marker for cardiovascular progenitor cells that form the three major cell types in the heart (cardiac, smooth muscle, and endothelial cells). In addition, ISL1 is a marker for endocrine progenitor cells in the pancreas, and plays a critical role in the development of mature islet beta cells.
<b>Form</b>	1.4 mg/ml (determined by Bradford assay) in hs-PBS (1.5 mM KH <sub>2</sub> PO <sub>4</sub> , 8.1 mM Na <sub>2</sub> HPO <sub>4</sub> , 500 mM NaCl, 2.7 mM KCl, pH 7.4).
<b>Molecular Mass</b>	11.5 kDa (AA 1-100).
<b>Purity</b>	>90% by SDS-PAGE
<b>Storage</b>	Store at -80 °C. Avoid multiple freeze-thaws.

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## GENE INFORMATION

<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; islet-1; ISL1 transcription factor, LIM/homeodomain; Isl-1;
<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 Inactivation, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolism, organism-specific biosystem; Regulation of Insulin Secretion, organism-specific biosystem; Synthesis, Secretion, and Inactivation of Glucose-dependent Insulinotropic Polypeptide (GIP), organism-specific biosystem;
<b>Function</b>	RNA polymerase II activating transcription factor binding; RNA polymerase II transcription coactivator activity; bHLH transcription factor binding; chromatin binding;

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enhancer sequence-specific DNA binding; enhancer sequence-specific DNA binding;  
estrogen receptor binding; ligand-dependent nuclear receptor binding; metal ion  
binding; sequence-specific DNA binding; sequence-specific DNA binding transcription  
factor activity; zinc ion binding;

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