

Recombinant Human ISL1

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

SPECIFICATION

Product Overview	Recombinant human ISL1 protein fragment (AA 1-100) was expressed in E. coli and refolded to soluble form.
Species	Human
Source	E.coli
ProteinLength	1-100 a.a.
Description	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.
Form	1.4 mg/ml (determined by Bradford assay) in hs-PBS (1.5 mM KH ₂ PO ₄ , 8.1 mM Na ₂ HPO ₄ , 500 mM NaCl, 2.7 mM KCl, pH 7.4).
Molecular Mass	11.5 kDa (AA 1-100).
Purity	>90% by SDS-PAGE
Storage	Store at -80 °C. Avoid multiple freeze-thaws.

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GENE INFORMATION

Gene Name	ISL1 ISL LIM homeobox 1 [Homo sapiens]
Official Symbol	ISL1
Synonyms	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;
Gene ID	3670
mRNA Refseq	NM_002202
Protein Refseq	NP_002193
MIM	600366
UniProt ID	P61371
Chromosome Location	5q11.2
Pathway	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;
Function	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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