

Recombinant Human ISL1

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

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 1-100 of Human Islet 1 refolded to soluble form; 100 amino acids, Predicted MWt 11.5 kDa.
Species	Human
Source	E.coli
ProteinLength	100 amino acids
Description	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.
Molecular Weight	11.500kDa
Tissue specificity	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.
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	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
Storage	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Contains 1 homeobox DNA-binding domain. Contains 2 LIM zinc-binding domains.
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;
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

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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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