

Recombinant Human ISL1 Protein, T7/His/TEV-11R-tagged

Cat. No. ISL1-149H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Full-length human ISL1 cDNA (348aa, derived from BC031213) was constructed with codon optimization using gene synthesis technology and expressed with a small T7-His-TEV cleavage site Tag (29aa) fusion at its N-terminal and 11 arginine (11R) tag at its C-terminal. It was expressed in E. coli as inclusion bodies.
Species	Human
Source	E.coli
ProteinLength	1-349 aa
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.
Form	Liquid
AA Sequence	MASMTGGGQQMGRGRHHHHHHENLYFQGGEFGDMGDPPKKKRLISLCVGCNQHID QYILRVSPDLEWHAACLKCAECNQYLDESCTCFVRDGKTYCKRDYIRLYGIKCAKCS IGFSKNDFVMRARSKVYHIECFRCVACSRQLIPGDEFALREDGLFCRADHDVVERAS LGAGDPLSPLHPARPLQMAAEPISARQPALRPHVHKQPEKTTRVRTVLNEKQLHTLR TCYAANPRPDALMKEQLVEMTGLSPRVIRVWFQNKRCDDKKRSIMMKQLQQQQPN

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DKTNIQGMTGTPMVAASPERHDGGLQANPVEVQSYQPPWKVLSDFALQSDIDQPA
FQQLVNFSEGGPGSNSTGSEVASMSSQLPDTNPMVASPIEAESGGGGSPGRRRR
RRRRRRR

Purity >92% by SDS-PAGE

Applications

1. May be used for in vitro Isl1 mediated gene transcription regulation study in cardiomyocyte lineage or other cell's differentiation by intracellular delivery of this ISL1-11R protein directly in vitro cell culture.
2. May be used for mapping ISL1 protein-protein interaction.
3. May be used as specific substrate protein for kinase, and ubiquitin (Sumo pathway) related enzyme functional screening assays.
4. Potential biomarker protein/therapeutic target protein for cancer cell chemotherapy sensitivity assay, et al
5. As native human ISL1 immunogen for specific antibody production.

Stability

Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

Concentration

0.5 mg/mL

Storage Buffer

Sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose ,DTT and others.

GENE INFORMATION

Gene Name

ISL1 ISL LIM homeobox 1 [Homo sapiens (human)]

Official Symbol

ISL1

Synonyms

ISL1; ISL LIM homeobox 1; Isl-1; ISLET1; insulin gene enhancer protein ISL-1; islet-1

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Gene ID	3670
mRNA Refseq	NM_002202
Protein Refseq	NP_002193
MIM	600366
UniProt ID	P61371

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