

Datasheet for ABIN7556585
ISL1 Protein (AA 1-349) (His tag)



[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	ISL1
Protein Characteristics:	AA 1-349
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ISL1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Isl1 Protein expressed in mammalien cells.
Sequence:	<p>MGDMGDPPKK KRLISLCVGC GNQIHDQYIL RVSPDLEWHA ACLKCAECNQ YLDESCTCFV RDGKTYCKRD YIRLYGIKCA KCSIGFSKND FVMRARSKVY HIECFRCVAC SRQLIPGDEF ALREDGLFCR ADHDVVERAS LGAGDPLSPL HPARPLQMAA EPISARQPAL RPHVHKQPEK TTRVRTVLNE KQLHTLRTCY AANPRPDALM KEQLVEMTGL SPRVIRVWFQ NKRCKDKKRS IMMKQLQQQQ PNDKTNIQGM TGTPMVAASP ERHDGGLQAN PVEVQSYQPP WKVLSDFALQ SDIDQPAFQQ LVNFSEGGPG SNSTGSEVAS MSSQLPDTPN SMVASPIEA Sequence without tag.</p> <p>The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	ISL1
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Alternative Name:	Isl1 (ISL1 Products)
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Background:	<p>Insulin gene enhancer protein ISL-1 (Isl1),FUNCTION: DNA-binding transcriptional activator (PubMed:14664703, PubMed:24643061, PubMed:25775587, PubMed:22343712, PubMed:18539116). Recognizes and binds to the consensus octamer binding site 5'-ATAATTAA-3' in promoter of target genes (PubMed:24643061, PubMed:25775587, PubMed:18539116). Plays a fundamental role in the gene regulatory network essential for retinal ganglion cell (RGC) differentiation (PubMed:25775587). Cooperates with the transcription factor POU4F2 to achieve maximal levels of expression of RGC target genes and RGC fate specification in the developing retina (PubMed:24643061, PubMed:25775587). Involved in the specification of motor neurons in cooperation with LHX3 and LDB1 (PubMed:18583962). Binds to insulin gene enhancer sequences (By similarity). Essential for heart development. Marker of one progenitor cell population that give rise to the outflow tract, right ventricle, a subset of left ventricular cells, and a large number of atrial cells as well, its function is required for these progenitors to contribute to the heart. Controls the expression of FGF and BMP growth factors in this cell population and is required for proliferation and survival</p>
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Target Details

of cells within pharyngeal foregut endoderm and adjacent splanchnic mesoderm as well as for migration of cardiac progenitors into the heart (PubMed:14667410).

{ECO:0000250|UniProtKB:P61374, ECO:0000269|PubMed:14664703, ECO:0000269|PubMed:14667410, ECO:0000269|PubMed:18583962, ECO:0000269|PubMed:22343712, ECO:0000269|PubMed:24643061, ECO:0000269|PubMed:25775587}.

Molecular Weight: 39.0 kDa

UniProt: [P61372](#)

Pathways: [Positive Regulation of Peptide Hormone Secretion](#), [Intracellular Steroid Hormone Receptor Signaling Pathway](#), [Peptide Hormone Metabolism](#), [Regulation of Intracellular Steroid Hormone Receptor Signaling](#), [Nuclear Hormone Receptor Binding](#), [Chromatin Binding](#)

Application Details

Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months