

Mouse Isl1 Blocking Peptide (C-term)
Synthetic peptide
Catalog # BP20999c**Specification**

Mouse Isl1 Blocking Peptide (C-term) - Product Information

Primary Accession [P61372](#)
Other Accession [P61374](#), [P61371](#), [P53405](#), [P50211](#)

Mouse Isl1 Blocking Peptide (C-term) - Additional Information

Gene ID 16392

Other Names

Insulin gene enhancer protein ISL-1, Islet-1, Isl1

Target/Specificity

The synthetic peptide sequence is selected from aa 302-316 of HUMAN Isl1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Mouse Isl1 Blocking Peptide (C-term) - Protein Information

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

Cellular Location

[Isoform 1]: Nucleus

Mouse Isl1 Blocking Peptide (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

Mouse Isl1 Blocking Peptide (C-term) - Images

Mouse Isl1 Blocking Peptide (C-term) - Background

Binds and regulates the promoters of the insulin, glucagon and somatostatin genes. Involved in the specification of motor neurons in cooperation with LHX3 and LDB1.

Mouse Isl1 Blocking Peptide (C-term) - References

Ando K.,et al.J. Mol. Endocrinol. 31:419-425(2003).
Koehler K.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
Bhati M.,et al.EMBO J. 27:2018-2029(2008).