

Recombinant Mouse Pdx1 Protein, Myc/DDK-tagged

Cat. No. Pdx1-4780M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length pancreatic and duodenal homeobox 1 (Pdx1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
ProteinLength	1-284 aa
Description	Activates insulin and somatostatin gene transcription. Key regulator of islet peptide hormone expression but also responsible for the development of the pancreas, most probably by determining maturation and differentiation of common pancreatic precursor cells in the developing gut. As part of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar cells is involved in the transcriptional activation of the ELA1 enhancer; the complex binds to the enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to the enhancer A element. Binds the DNA sequence 5'-CC[CT]TAATGGG-3'.
Molecular Mass	31.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
GENE INFORMATION	
Gene Name	Pdx1 pancreatic and duodenal homeobox 1 [Mus musculus (house mouse)]
Official Symbol	Pdx1
Synonyms	PDX1; pancreatic and duodenal homeobox 1; pancreas/duodenum homeobox protein 1; islet/duodenum homeobox 1; somatostatin-transactivating factor 1; pancreatic and duodenal homeobox gene 1; insulin promoter factor 1, homeodomain transcription factor; Ipf1; IDX-1; IPF-1; Mody4; STF-1; pdx-1
Gene ID	18609
mRNA Refseq	NM_008814
Protein Refseq	NP_032840
UniProt ID	P52946