

Recombinant Human PDX1 protein, Arginine-tagged

Cat. No. PDX1-147H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PDX1 protein fused with 11 arginine domain at C-terminal, which efficiently delivery protein intracellularly, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-283 aa
Form	0.5 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
AA Sequence	MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGRQPPPPPPHPFPGALG ALEQGSPDISPYEVPPLAD DPAVAHLHHHLPAQLALPHPPAGPFPEGAEPGVLEE PNRVQLPFPWMKSTKAHAWKGQWAGGAYAAEPEENKRTR TAYTRAQLLELEKEF LFNKYISRPRRVELAVMLNLTERHIKIWFQNRRMKWKKEEDKKRGGGTAVGGGGVA EPEQ DCAVTSGEELLALPPPPPPGGAVPPAAPVAAREGRLPPGLSASPQPSSVAP RRPQEPRESGGGGSPQRRRRRRRRR RRR
Purity	>90% by SDS-PAGE
Applications	1. Protein transduction for pancreatic β-cells in vitro differentiation.2. Active recombinant protein, may be used for ELISA based DNA/Protein binding assay.3. As specific protein substrate for kinase assay.

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Storage Keep at -20°C for long term storage. Product is stable at 4 °C for at least 7 days.

GENE INFORMATION

Gene Name PDX1 pancreatic and duodenal homeobox 1 [Homo sapiens]

Official Symbol PDX1

Synonyms PDX1; IDX 1; MODY4; PDX 1; somatostatin transcription factor 1; STF 1; IPF-1; IUF-1; glucose-sensitive factor; insulin upstream factor 1; islet/duodenum homeobox-1; GSF; IPF1; IUF1; IDX-1; PDX-1; STF-1;

Gene ID 3651

mRNA Refseq NM_000209

Protein Refseq NP_000200

MIM 600733

UniProt ID P52945

Chromosome Location 13q12.1

Pathway Developmental Biology, organism-specific biosystem; FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Maturity onset diabetes of the young, organism-specific biosystem; Maturity onset diabetes of the young, conserved biosystem; Regulation of beta-cell development, organism-specific biosystem; Regulation of gene expression in beta cells, organism-specific biosystem; Regulation of gene expression in early pancreatic precursor cells, organism-specific

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	biosystem;
Function	chromatin binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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