

Recombinant Human PDX1 Protein, His-tagged

Cat. No. PDX1-393H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDX1 fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-283 aa
Description	Activates insulin, somatostatin, glucokinase, islet amyloid polypeptide and glucose transporter type 2 gene transcription. Particularly involved in glucose-dependent regulation of insulin gene transcription. 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 preferentially the DNA motif 5'-[CT]TAAT[TG]-3'. During development, specifies the early pancreatic epithelium, permitting its proliferation, branching and subsequent differentiation. At adult stage, required for maintaining the hormone-producing phenotype of the beta-cell.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl.
Molecular Mass	30.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Concentration >50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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

Official Symbol PDX1

Synonyms PDX1; pancreatic and duodenal homeobox 1; insulin promoter factor 1, homeodomain transcription factor , IPF1; pancreas/duodenum homeobox protein 1; 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; pancreatic-duodenal homeobox factor 1; somatostatin-transactivating factor 1; insulin promoter factor 1, homeodomain transcription factor; 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

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