

Recombinant Full Length Human PDX1 Protein, C-Flag-tagged

Cat. No. PDX1-1923HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PDX1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
ProteinLength	1-283 aa
Description	The protein encoded by this gene is a transcriptional activator of several genes, including insulin, somatostatin, glucokinase, islet amyloid polypeptide, and glucose transporter type 2. The encoded nuclear protein is involved in the early development of the pancreas and plays a major role in glucose-dependent regulation of insulin gene expression. Defects in this gene are a cause of pancreatic agenesis, which can lead to early-onset insulin-dependent diabetes mellitus (IDDM), as well as maturity onset diabetes of the young type 4 (MODY4).
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	30.6 kDa
AA Sequence	MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGRQPPPPPPHPFPGALG ALEQGSPDISPYEV PPLADDPVAHLHHHLPAQLALPHPPAGPFPEGAEPGVLEE PNRVQLPFPWMKSTKAHAWKGQWAGGAYA AEPEENKRTRTAYTRAQLLELEKEF LFNKYISRPRRVELAVMLNLTERHIKIWFQNRMRMKWKKEEDKKRG GGTAVGGGGV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	AEPEQDCAVTSGEELLALPPPPPPGGAVPPAAPVAAREGRLPPGLSASPQPSSVAP RRPQ EPR SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
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.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transcription Factors
Protein Pathways	Maturity onset diabetes of the young, Type II diabetes mellitus
Full Length	Full L.

GENE INFORMATION

Gene Name	PDX1 pancreatic and duodenal homeobox 1 [Homo sapiens (human)]
Official Symbol	PDX1
Synonyms	GSF; IPF1; IUF1; IDX-1; MODY4; PDX-1; STF-1; PAGEN1
Gene ID	3651

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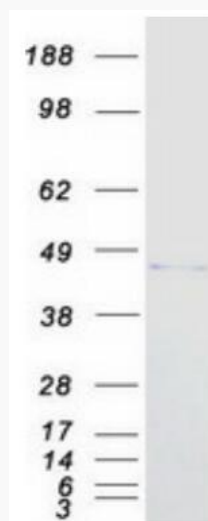
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mRNA Refseq [NM_000209.4](#)

Protein Refseq [NP_000200.1](#)

MIM [600733](#)

UniProt ID [P52945](#)



Coomassie blue staining of purified PDX1 protein.

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