

Recombinant Full Length Human PDX1 Protein

Cat. No. PDX1-367HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein of Human PDX1 with proprietary tag; predicted MW 58.13 kDa, inclusive of tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	283 amino acids
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 (NIDDM), as well as maturity onset diabetes of the young type 4 (MODY4).
Form	Liquid
Molecular Mass	58.130kDa inclusive of tags
AA Sequence	MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGR QPPPPPPHPFPGAL GALEQGSPDISPYEVPPLADDPAVA HLHHHLPAQLALPHPPAGPFPEGAEPGVLE EPNRVQLPFP WMKSTKAHAWKGQWAGGAYAAEPEENKRTRTAYTRAQLLE LEKE FLFNKYISRRRVELAVMLNLTERHIKIWFQNRRMK WKKEEDKKRGGGTAVGGGG

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	VAEPEQDCAVTSGEELLALPP PPPPGGAVPPAAPVAAREGRLPPGLSASPQPSSV APRRPQ EPR
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.
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
Gene ID	3651
mRNA Refseq	NM_000209
Protein Refseq	NP_000200
MIM	600733
UniProt ID	P52945

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