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Product datasheet for PH322354

PDX1 (NM_000209) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PDX1 MS Standard C13 and N15-labeled recombinant protein (NP_000200)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC222354
Predicted MW:	30.6 kDa
Protein Sequence:	>RC222354 representing NM_000209 Red=Cloning site Green=Tags(s) MNGEEQYYAATQLYKDPCAFQRGPAPEFSASPPACLYMGRQPPPPPPHPFPGALGALEQGSPPDISPYEV PPLADDPAVAHLHHHLPAQLALPHPPAGPFPEGAEPGVLEEPNRVQLPFPWMKSTKAHAWKGQWAGGAYA AEPEENKRTRTAYTRAQLLELEKEFLFNKYISRPRRVELAVMLNLTERHIKIWFQNRRMKWKKEEDKKRG GGTAVGGGGVAEPEQDCAVTSGEELLALPPPPPPGGAVPPAAPVAAREGRLPPGLSASPQPSSVAPRRPQ EPR SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000200
RefSeq Size:	1525
RefSeq ORF:	849
Synonyms:	GSF; IDX-1; IPF1; IUF1; MODY4; PAGEN1; PDX-1; STF-1
Locus ID:	3651

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UniProt ID: P52945

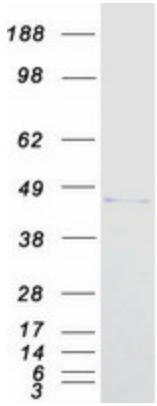
Cytogenetics: 13q12.2

Summary: 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). [provided by RefSeq, Aug 2017]

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

Product images:



Coomassie blue staining of purified PDX1 protein (Cat# [TP322354]). The protein was produced from HEK293T cells transfected with PDX1 cDNA clone (Cat# [RC222354]) using MegaTran 2.0 (Cat# [TT210002]).