Recombinant Human Pancreas/duodenum homeobox protein 1 (PDX1)

Product Code	CSB-BP017746HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	P52945
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	>85% (SDS-PAGE)
Sequence	MNGEEQYYAA TQLYKDPCAF QRGPAPEFSA SPPACLYMGR QPPPPPPHPF PGALGALEQG SPPDISPYEV PPLADDPAVA HLHHHLPAQL ALPHPPAGPF PEGAEPGVLE EPNRVQLPFP WMKSTKAHAW KGQWAGGAYA AEPEENKRTR TAYTRAQLLE LEKEFLFNKY ISRPRRVELA VMLNLTERHI KIWFQNRRMK WKKEEDKKRG GGTAVGGGGV AEPEQDCAVT SGEELLALPP PPPPGGAVPP AAPVAAREGR LPPGLSASPQ PSSVAPRRPQ EPR
Source	Baculovirus
Target Names	PDX1
Protein Names	Recommended name: Pancreas/duodenum homeobox protein 1 Short name= PDX-1 Alternative name(s): Glucose-sensitive factor Short name= GSF Insulin promoter factor 1 Short name= IPF-1 Insulin upstream factor 1 Short nam
Expression Region	1-283
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This protein 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).
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.