

Recombinant Human PTF1A protein, His-tagged

Cat. No. PTF1A-8038H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTF1A aa. (Gln177~Ser328) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gln177~Ser328
Description	This gene encodes a protein that is a component of the pancreas transcription factor 1 complex (PTF1) and is known to have a role in mammalian pancreatic development. The protein plays a role in determining whether cells allocated to the pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates. The protein is thought to be involved in the maintenance of exocrine pancreas-specific gene expression including elastase 1 and amylase. Mutations in this gene cause cerebellar agenesis and loss of expression is seen in ductal type pancreas cancers.
Form	Freeze-dried powder
Molecular Mass	24kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>98%

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Characteristic	The isoelectric point is 6.8.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PTF1A pancreas specific transcription factor, 1a [Homo sapiens (human)]
Official Symbol	PTF1A
Synonyms	PACA; PAGEN2; bHLHa29; PTF1-p48; bHLH transcription factor p48; class A basic helix-loop-helix protein 29; class II bHLH protein PTF1A; exocrine pancreas-specific transcription factor p48; p48 DNA-binding subunit of transcription factor PTF1; pancreas transcription factor 1 subunit alpha

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Gene ID	256297
mRNA Refseq	NM_178161.2
Protein Refseq	NP_835455.1
UniProt ID	Q7RTS3
SDS-PAGE	