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PTF1A Protein (AA 1-324) (Strep Tag)



Overview

Quantity:	1 mg
Target:	PTF1A
Protein Characteristics:	AA 1-324
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTF1A protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:

MDAVLLEHFP GGLDTFPSPY FDEEDFFTDQ SSRDPLEDSD ELLGDEQAEV EFLSHQLHEY CYRDGACLLL QPAPSAAPHA LAPPPLGDPG EPEDNVSYCC DAGAPLAAFP YSPGSPPSCL AYPCAAVLSP GARLGGLNGA AAAAAARRRR RVRSEAELQQ LRQAANVRER RRMQSINDAF EGLRSHIPTL PYEKRLSKVD TLRLAIGYIN FLSELVQADL PLRGSGAGGC GGPGGSRHLG EDSPGNQAQK VIICHRGTRS PSPSDPDYGL PPLAGHSLSW TDEKQLKEQN IIRTAKVWTP

EDPRKLNSKS FDNIENEPPF EFVS

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- · Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure

correct folding and modification.

- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
 protein production are removed, leaving only the protein production machinery and the
 mitochondria to drive the reaction. During our lysate completion steps, the additional
 components needed for protein production (amino acids, cofactors, etc.) are added to
 produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Product Details	
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade
Target Details	
Target:	PTF1A
Alternative Name:	Ptf1a (PTF1A Products)
Background:	Pancreas transcription factor 1 subunit alpha (Pancreas-specific transcription factor 1a) (bHLH
	transcription factor p48) (p48 DNA-binding subunit of transcription factor PTF1) (PTF1-
	p48),FUNCTION: Transcription factor implicated in the cell fate determination in various organs.
	Binds to the E-box consensus sequence 5'-CANNTG-3'. Plays a role in early and late pancreas
	development and differentiation. Important for determining whether cells allocated to the
	pancreatic buds continue towards pancreatic organogenesis or revert back to duodenal fates.
	May be involved in the maintenance of exocrine pancreas-specific gene expression including
	ELA1 and amylase. Required for the formation of pancreatic acinar and ductal cells. Plays an
	important role in cerebellar development. Directly regulated by FOXN4 and RORC during retinal
	development, FOXN4-PTF1A pathway plays a central role in directing the differentiation of
	retinal progenitors towards horizontal and amacrine fates. {ECO:0000269 PubMed:11562365,
	ECO:0000269 PubMed:12185368, ECO:0000269 PubMed:15543146,
	ECO:0000269 PubMed:17075007, ECO:0000269 PubMed:9851981}.
Molecular Weight:	35.2 kDa
UniProt:	Q9QX98
Pathways:	Retinoic Acid Receptor Signaling Pathway
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
	Nicotiana tabacum c.v This contains all the protein expression machinery needed to produce
	even the most difficult-to-express proteins, including those that require post-translational
	modifications.

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Application Details

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Restrictions:

For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)