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Datasheet for ABIN3111237

PIGN Protein (AA 1-931) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	PIGN
Protein Characteristics:	AA 1-931
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PIGN protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MLLFFTLGLL IHVFFASIF DIYFTSPLVH GMTPQFTPLP PPARRLVLFV ADGLRADALY
ELDENGNSRA PFIRNIIMHE GSWGISHTRV PTESRPGHVA LIAGFYEDVS AVAKGWKENP
VEFDLSFNES KYTWSWGSPD ILPMFAKGAS GDHVYTYSD AKREDFGAQD ATKLDTWVFD
NVKDFHHAR NNQSLFSKIN EEKIVFFLHL LGIDTNGHAH RPSSRDYKHN IKKVDDGVKE
IVSMFNHFYD NDGKTTFIFT SDHGMDWGS HGAGHPSETL TPLVTWGAGI KYPQRVSAQQ
FDDAFLKEWR LENWKRLDVN QADIAPLMTS LIGVPFPLNS VGILPVDYLN NTDLFKAESM
FTNAVQILEQ FKVKMTQKKE VTLPLFTPF KLLSDSKQFN ILRKARSYIK HRKFDEVVSL
CKELIHLALK GLSYYHTYDR FFLGVNVVIG FVGWISYASL LIIKSHSNLI KGVSKEVKKP
SHLLPCSFVA IGILVAFFLL IQACPWTYYV YGLLPLPIWY AVLREFQVIQ DLVSVLTYP
LSHFVGYLLA FTLGIEVLVL SFFYRYMLTA GLTAFAAWPF LTRLWTRAKM TSLSWTFFSL
LLAVFPLMPV VGRKPDISLV MGAGLLVLLL SLCVVTSLMK RKDSFIKEEL LVHLLQVLST
VLSMYVVYST QSSLLRKQGL PLMNQIISWA TASSLVVPL LSSPVLQRL FSILLSLMST

YLLSTGYEA LFPLVLSCLM FVWINIEQET LQSGVCCCKQ KLTSIQFSYN TDITQFRQLY
LDDIRRAFFL VFFLVTAFFG TGNIASINSF DLASVYCFLT VFSPFMMGAL MMWKILIPFV
LVMCAFEAVQ LTTQLSSKSL FLIVLVISDI MALHFFFLVK DYGSWLDIGT SISHYVIVMS
MTIFLVFLNG LAQLLTTKKL RLCGKPKSHF M

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 post-translational 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.

Product Details

- 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®): <ol style="list-style-type: none">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.2. 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.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	PIGN
Alternative Name:	PIGN (PIGN Products)
Background:	GPI ethanolamine phosphate transferase 1 (EC 2.-.-.) (MCD4 homolog) (Phosphatidylinositol-glycan biosynthesis class N protein) (PIG-N),FUNCTION: Ethanolamine phosphate transferase involved in glycosylphosphatidylinositol-anchor biosynthesis. Transfers ethanolamine phosphate to the first alpha-1,4-linked mannose of the glycosylphosphatidylinositol precursor of GPI-anchor (By similarity). May act as suppressor of replication stress and chromosome missegregation. {ECO:0000250, ECO:0000269 PubMed:23446422}.
Molecular Weight:	105.8 kDa
UniProt:	O95427
Pathways:	Inositol Metabolic Process

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

Application Details

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.

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!

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)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process