

Datasheet for ABIN3125705 INPP5K Protein (AA 1-468) (Strep Tag)



Overview

Quantity:	1 mg
Target:	INPP5K
Protein Characteristics:	AA 1-468
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5K protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MQHGDRNTPG YREGIMSAVS LRRPSAPKGF ALSVHVVTWN VASAAPTVDL SDLLQLNNQD
	LNLDIYIIGL QEMNFGIISL LSDAAFEDPW SSLFMDMLSP LNFVKISQVR MQGLLLLVFA
	KYQHLPYIQI ISTKSTPTGL YGYWGNKGGV NVCLKLYGYY VSIINCHLPP HMYNNDQRLE
	HFDRILESLT FEGYDVPNIL DHDLILWFGD MNFRIEDFGL LFVQESITRK YYKELWEKDQ
	LFIAKKNDQL LREFQEGPLL FPPTYKFDRH SNNYDTSEKK RKPAWTDRIL WRLKRQPSQA
	SPLASSVPTS YFLLTLKNYV SHMAYSISDH KPVTGTFDLE LNPLMSVPLI TMMPEHLWTM
	ENDMLISYTS TPEFLSSSWD WIGLYKVGMR HINDYVAYVW VGDNQVSYGN NPNQVYINIS
	AIPDTEDQFL LCYYSNNLHS VVGISQPFKI PIRSFLREDT LYEPEPQI
	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.

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Product Details

Characteristics:

Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

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Target Details

Target:	INPP5K
Alternative Name:	Inpp5k (INPP5K Products)
Background:	Inositol polyphosphate 5-phosphatase K (EC 3.1.3.56) (Phosphatidylinositol-3,4,5-trisphosphate
	5-phosphatase) (EC 3.1.3.86) (Phosphatidylinositol-4,5-bisphosphate 5-phosphatase) (EC
	3.1.3.36) (Skeletal muscle and kidney-enriched inositol phosphatase),FUNCTION: Inositol 5-
	phosphatase which acts on inositol 1,4,5-trisphosphate, inositol 1,3,4,5-tetrakisphosphate,
	phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate. Has 6-fold
	higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5-trisphosphate (By
	similarity). Negatively regulates assembly of the actin cytoskeleton. Controls insulin-dependent
	glucose uptake among inositol 3,4,5-trisphosphate phosphatases, therefore, is the specific
	regulator for insulin signaling in skeletal muscle (PubMed:22247557, PubMed:22751929).
	{ECO:0000250 UniProtKB:Q9BT40, ECO:0000269 PubMed:22247557,
	ECO:0000269 PubMed:22751929}.
Molecular Weight:	54.2 kDa
UniProt:	Q8C5L6
Pathways:	Carbohydrate Homeostasis, Regulation of Carbohydrate 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
	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

Restrictions:

For Research Use only

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needed is the DNA that codes for the desired protein!

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months