Datasheet for ABIN3095410

INPP5D Protein (AA 1-1189) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	INPP5D
Protein Characteristics:	AA 1-1189
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5D protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MVPCWNHGNI TRSKAEELLS RTGKDGSFLV RASESISRAY ALCVLYRNCV YTYRILPNED DKFTVQASEG VSMRFFTKLD QLIEFYKKEN MGLVTHLQYP VPLEEEDTGD DPEEDTVESV VSPPELPPRN IPLTASSCEA KEVPFSNENP RATETSRPSL SETLFQRLQS MDTSGLPEEH LKAIQDYLST QLAQDSEFVK TGSSSLPHLK KLTTLLCKEL YGEVIRTLPS LESLQRLFDQ QLSPGLRPRP QVPGEANPIN MVSKLSQLTS LLSSIEDKVK ALLHEGPESP HRPSLIPPVT FEVKAESLGI PQKMQLKVDV ESGKLIIKKS KDGSEDKFYS HKKILQLIKS QKFLNKLVIL VETEKEKILR KEYVFADSKK REGFCQLLQQ MKNKHSEQPE PDMITIFIGT WNMGNAPPPK KITSWFLSKG QGKTRDDSAD YIPHDIYVIG TQEDPLSEKE WLEILKHSLQ EITSVTFKTV AIHTLWNIRI VVLAKPEHEN RISHICTDNV KTGIANTLGN KGAVGVSFMF NGTSLGFVNS HLTSGSEKKL RRNQNYMNIL RFLALGDKKL SPFNITHRFT HLFWFGDLNY RVDLPTWEAE TIIQKIKQQQ YADLLSHDQL LTERREQKVF LHFEEEEITF APTYRFERLT RDKYAYTKQK ATGMKYNLPS WCDRVLWKSY PLVHVVCQSY GSTSDIMTSD HSPVFATFEA GVTSQFVSKN

GPGTVDSQGQ IEFLRCYATL KTKSQTKFYL EFHSSCLESF VKSQEGENEE GSEGELVVKF GETLPKLKPI ISDPEYLLDQ HILISIKSSD SDESYGEGCI ALRLEATETQ LPIYTPLTHH GELTGHFQGE IKLQTSQGKT REKLYDFVKT ERDESSGPKT LKSLTSHDPM KQWEVTSRAP PCSGSSITEI INPNYMGVGP FGPPMPLHVK QTLSPDQQPT AWSYDQPPKD SPLGPCRGES PPTPPGQPPI SPKKFLPSTA NRGLPPRTQE SRPSDLGKNA GDTLPQEDLP LTKPEMFENP LYGSLSSFPK PAPRKDQESP KMPRKEPPPC PEPGILSPSI VLTKAQEADR GEGPGKQVPA PRLRSFTCSS SAEGRAAGGD KSQGKPKTPV SSQAPVPAKR PIKPSRSEIN QQTPPTPTPR PPLPVKSPAV LHLQHSKGRD YRDNTELPHH GKHRPEEGPP GPLGRTAMQ

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!

Product Details

	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. 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)

Target Details

Target:	INPP5D
Alternative Name:	INPP5D (INPP5D Products)
Background:	Phosphatidylinositol 3,4,5-trisphosphate 5-phosphatase 1 (EC 3.1.3.86) (Inositol polyphosphate-5-phosphatase D) (EC 3.1.3.56) (Inositol polyphosphate-5-phosphatase of 145 kDa) (SIP-145) (Phosphatidylinositol 4,5-bisphosphate 5-phosphatase) (EC 3.1.3.36) (SH2 domain-containing inositol 5'-phosphatase 1) (SH2 domain-containing inositol phosphatase 1) (SHIP-1) (p150Ship) (hp51CN),FUNCTION: Phosphatidylinositol (PtdIns) phosphatase that specifically hydrolyzes the 5-phosphate of phosphatidylinositol-3,4,5-trisphosphate (PtdIns(3,4,5)P3) to produce PtdIns(3,4)P2, thereby negatively regulating the PI3K (phosphoinositide 3-kinase) pathways (PubMed:8723348, PubMed:10764818, PubMed:8769125). Able also to hydrolyzes the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:9108392, PubMed:10764818, PubMed:8769125). Acts as a negative regulator of B-cell antigen receptor signaling. Mediates signaling from the FC-gamma-RIIB receptor (FCGR2B), playing a central role in terminating signal transduction from activating immune/hematopoietic cell receptor systems. Acts as a negative regulator of myeloid cell proliferation/survival and chemotaxis, mast cell degranulation, immune cells homeostasis, integrin alpha-IIb/beta-3 signaling in platelets and JNK signaling in B-cells. Regulates

Target Details

	proliferation of osteoclast precursors, macrophage programming, phagocytosis and activation and is required for endotoxin tolerance. Involved in the control of cell-cell junctions, CD32a signaling in neutrophils and modulation of EGF-induced phospholipase C activity (PubMed:16682172). Key regulator of neutrophil migration, by governing the formation of the leading edge and polarization required for chemotaxis. Modulates FCGR3/CD16-mediated cytotoxicity in NK cells. Mediates the activin/TGF-beta-induced apoptosis through its Smad-dependent expression. {ECO:0000269|PubMed:10764818, ECO:0000269|PubMed:12421919, ECO:0000269|PubMed:16682172, ECO:0000269|PubMed:8723348, ECO:0000269|PubMed:8769125, ECO:0000269|PubMed:9108392}.
Molecular Weight:	133.3 kDa
UniProt:	Q92835
Pathways:	TCR Signaling, BCR Signaling, Warburg Effect

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 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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

