

Datasheet for ABIN3095410

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



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Overview

Quantity:	250 µg
Target:	INPP5D
Protein Characteristics:	AA 1-1189
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5D protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MVPCWNHGNI TRSKAEELLS RTGKDGSLV RASESISRAY ALCVLYRNCV YTYRILPNED</p> <p>DKFTVQASEG VSMRFFTKLD QLIEFYKKEN MGLVTHLQYP VPLEEEDTGD DPEEDTVESV</p> <p>VSPPELPPRN IPLTASSCEA KEVPFSNENP RATETSRPSL SETLFQRLQS MDTSGLPPEEH</p> <p>LKAIQDYLLST QLAQDSEFVK TGSSSLPHLK KLTLLCKEL YGEVIRTLPS LESLQRLFDQ</p> <p>QLSPGLRPRP QVPGEANPIN MVSLSQLTS LLSSIEDKVK ALLHEGPESP HRPSLIPPVT</p> <p>FEVKAESLGI PQKMLKVDV ESGKLIKKK KDGSEDKFYS HKKILQLIKS QKFLNKLVL</p> <p>VETEKEKILR KEYVFADSKK REGFCQLLQQ MKNKHSEQPE PDMITIFIGT WNMGNAPPPK</p> <p>KITSWFLSKG QGKTRDDSAD YIPHDYVIG TQEDPLSEKE WLEILKHSQ EITSVTFTKV</p> <p>AIHTLWNIRI VVLAKPEHEN RISHICTDNV KTGIANLGN KGAVGVFSMF NGTSLGFVNS</p> <p>HLTSGSEKKL RRNQNYMNIL RFLALGDKKL SPFNITHRFT HLFWFGDLNY RVDLPTWEAE</p> <p>TIIQIKQQQ YADLLSHDQL LTERREQKVF LHFEETITF APTYRFERLT RDKYAYTKQK</p>

ATGMKYNLPS WCDRLVWKSYP LVHVVCQSY GSTSDIMTSD HSPVFATFEA GVTSQFVSKN
GPGTVDSQGG IEFLRCYATL KTKSQTKFYLF 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 QQTPTPTPR
PPLPVKSPAV LHLQHSKGRD YRDNTELP HH 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 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 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 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

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 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-

Target Details

	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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

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