

Datasheet for ABIN3137223

INPP5D Protein (AA 1-1191) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	INPP5D
Protein Characteristics:	AA 1-1191
Origin:	Mouse
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>MPAMVPGWNH GNITRSKAE LLSRAGKDGS FLVRASESIP RAYALCVLFR NCVYTYRILP</p> <p>NEDDKFTVQA SEGVPMRFFT KLDQLIDFYK KENMGLVTHL QYPVPLEEED AIDEAEEDTV</p> <p>ESVMSPPELP PRNIPMSAGP SEAKDLPLAT ENPRAPEVTR LSLSETLFQR LQSMDSGLP</p> <p>EEHLKAIQDY LSTQLLDSD FLKTGSSNLP HLKKLMSLLC KELHGEVIRT LPSLESLQRL</p> <p>FDQQLSPGLR PRPQVPGEAS PITMVAKLSQ LTSLLSSIED KVKSLLEHGS ESTNRRSLIP</p> <p>PVTFEVKSES LGIPQKMHLK VDVEGKLIV KSKDGSSEDK FYSHKKILQL IKSQKFLNKL</p> <p>VILVETEKEK ILRKEYVFAD SKKREGFCQL LQQMKNKHSE QPEPDMITIF IGTWNMGNAP</p> <p>PPKKITSWFL SKGQGKTRDD SADYIPHDY VIGTQEDPLG EKEWLELLRH SLQEVTSMTF</p> <p>KTVAIHTLWN IRIVVLAKPE HENRISHICT DNVKTGIANT LGNKGAVGVS FMFNGTSLGF</p> <p>VNSHLTSGSE KKLRRNQNYM NILRFLALGD KKLSPFNITH RFTHLFWLGD LNYRVELPTW</p> <p>EAEAIQKIK QQQYSDLLAH DQLLLERKDQ KVFLHFEEEE ITFAPTYRFE RLTRDKYAYT</p>

KQKATGMKYN LPSWCDRVLW KSYPLVHVVC QSYGSTSDIM TSDHSPVFAT FEAGVTSQFV
SKNGPGTVDS QGQIEFLACY ATLKTKSQTK FYLEFHSSCL ESFVKSQEGE NEEGSEGELV
VRFGETLPKL KPIISDPEYL LDQHILISIK SSDSDESYGE GCIALRLETT EAQHPIYTPL
THHGEMTGHF RGEIKLQTSQ GKMREKLYDF VKTERDESSG MKCLKNLTSH DPMRQWEPG
RVPACGVSSL NEMINPNYIG MGPFQQLHG KSTLSPDQQL TAWSYDQLPK DSSLGPGRGE
GPPTPSQPP LSPKKFSSST ANRGPCPRVQ EARGDLGKV EALLQEDLLL TKPEMFENPL
YGSVSSFPKL VPRKEQESPK MLRKEPPPCP DPGISSPSIV LPKAEVESV KGTSKQAPVP
VLGPTPRI RSFTCSSSAEGR MTSGDKSQGK PKASASSQAP VPVKRPVKPS RSEMSQQTTP
IPAPRPPLPV KSPAVLQLQH SKGRDYRDNT ELPHHGKHRQ EEGLLGRTAM Q

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:	<p>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),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 (By similarity). Also able to hydrolyze the 5-phosphate of phosphatidylinositol-4,5-bisphosphate (PtdIns(4,5)P3) and inositol 1,3,4,5-tetrakisphosphate (PubMed:9367159). 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. 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.</p> <p>{ECO:0000250 UniProtKB:Q92835, ECO:0000269 PubMed:11136821,</p>

Target Details

ECO:0000269|PubMed:11222379, ECO:0000269|PubMed:11359765,
ECO:0000269|PubMed:11896575, ECO:0000269|PubMed:12161749,
ECO:0000269|PubMed:12370370, ECO:0000269|PubMed:12447389,
ECO:0000269|PubMed:12882960, ECO:0000269|PubMed:14993273,
ECO:0000269|PubMed:15166241, ECO:0000269|PubMed:17142780,
ECO:0000269|PubMed:17173042, ECO:0000269|PubMed:8654924,
ECO:0000269|PubMed:8805703, ECO:0000269|PubMed:9244303,
ECO:0000269|PubMed:9367159, ECO:0000269|PubMed:9620849,
ECO:0000269|PubMed:9736736, ECO:0000269|PubMed:9763612,
ECO:0000269|PubMed:9857188}.

Molecular Weight: 133.5 kDa

UniProt: [Q9ES52](#)

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.

Handling

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