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Datasheet for ABIN7565059

INPP5D Protein (AA 1-1191) (His tag)

Overview

Quantity:	1 mg
Target:	INPP5D
Protein Characteristics:	AA 1-1191
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5D protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Inpp5d Protein expressed in mammalien cells.
Sequence:	MPAMVPGWNH GNITRSKAE E LLSRAGKDGS FLVRASESIP RAYALCVLFR NCVYTYRILP NEDDKFTVQA SEGVPMRFFT KLDQLIDFYK KENMGLVTHL QYPVPLEEED AIDEAEEDTV ESVMSPPELP PRNIPMSAGP SEAKDLPLAT ENPRAPEVTR LSLSETLFQR LQSMDSGLP EEHLKAIQDY LSTQLLLDSD FLKTGSSNLP HLKKLMSLLC KELHGEVIRT LPSLESLQRL FDQQLSPGLR PRPQVPGEAS PITMVAKLSQ LTSLLSSIED KVKSLLEHGS ESTNRRSLIP PVTFEVKSES LGIPQKMHLK VDVEGKLV KSKDGSSEDK FYSHKKILQL IKSQKFLNKL VILVETEKEK ILRKEYVFAD SKKREGFCQL LQQMKNKHSE QPEPDMITIF IGTWNMGNAP PPKKITSWFL SKGQGKTRDD SADYIPHDIY VIGTQEDPLG EKEWLELLRH SLQEVTSMTF KTVAIHTLWN IRIVVLAKPE HENRISHICT DNVKTGIANT LGNKGAVGVS FMFNGTSLGF VNSHLTSGSE KKLRRNQNYM NILRFLALGD KKLSPFNITH RFTHLFWLGD LNYRVELPTW EAEAIQKIK QQQYSDLLAH DQLLLERKDQ KVFLHFEEEE ITFAPTYRFE RLTRDKYAYT

Product Details

KQKATGMKYN LPSWCDRVLW KSYPLVHVVC QSYGSTSDIM TSDHSPVFAT FEAGVTSQFV
SKNGPGTVDS QGQIEFLACY ATLKTKSQTK FYLEFHSSCL ESFVKSQEGE NEEGSEGELV
VRFGETLPKL KPIISDPEYL LDQHILISIK SSSDESUYGE GCIALRLETT EAQHPIYTPL
THHGEMTGHF RGEIKLQTSQ GKMREKLYDF VKTERDESSG MKCLKNLTSK DPMRQWEPG
RVPACGVSSL NEMINPNYIG MGPFQPLHG KSTLSPDQQL TAWSYDQLPK DSSLGPGRGE
GPPTPPSQPP LSPKKFSSST ANRGPQPRVQ EARPGDLGKV EALLQEDLLL TKPEMFENPL
YGSVSSFPKL VPRKEQESPK MLRKEPPPCP DPGISSPSIV LPKAEVESV KGTSKQAPVP
VLGPTPRIKS FTCSSSAEGR MTSGDKSQGK PKASASSQAP VPKRQVQPS RSEMSQQTTP
IPAPRPPLPV KSPAVLQLQH SKGRDYRDNT ELPHHGKHRQ EEGLLGRGTAQ Q **Sequence without tag. The proposed Purification-Tag is based on experiences 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 to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

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-

Target Details

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-R1IB 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.

{ECO:0000250|UniProtKB:Q92835, ECO:0000269|PubMed:11136821, 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months
