

Datasheet for ABIN7555984

HISPPD1 Protein (AA 1-1243) (His tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	HISPPD1 (PPIP5K2)
Protein Characteristics:	AA 1-1243
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HISPPD1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat PPIP5K2 Protein expressed in mammalien cells.
Sequence:	MSEAPRFFVG PEDTEINPGN YRHFFHHADE DDEEEDSPP ERQIVVGICS MAKKSISKPM KEILERISLF KYITVVVFEE EVILNEPVEN WPLCDCLISF HSKGFPLDKA VAYAKLRNPF VINDLNMQYL IQDRREVYSI LQAEGILLPR YAILNRDPNN PKECNLIEGE DHVEVNGEVF QKPFVEKPVSAEDHNVYIYY PTSAGGGSQR LFRKIGSRSS VYSPESNVRK TGSYIYEEFM PTDGTDVKVY TVGPDYAHAE ARKSPALDGK VERDSEGKEV RYPVILNARE KLIAWKVCLA FKQTVCGFDL LRANGQSYVC DVNGFSFVKV SMKYDDCAK ILGNIVMREL APQFHIPWSI PLEAEDIPIV PTTSGTMMEL RCVIAVIRHG DRTPKQKMKM EVRHQKFFDL FEKCDGYKSG KLKLLKPKQL QEVLDIARQL LMELGQNNDS EIEENKPKLE QLKTVLEMYG HFSGINRKVQ LTYLPHGCPK TSSEEDSRR EEPSSLLVVK WGGELTPAGR VQAEELGRAF RCMYPGGQGD YAGFPGCGLL RLHSTYRHDL KIYASDEGRV QMTAAAFKGLLALEGELTP ILVQMVKSAN MNGLLDSDSD SLSSCQQRVK ARLHEILQKD RDFTAEDYEK LTPSGSISLI KSMHLIKNPV

KTCDKVYSLI QSLTSQIRHR MEDPKSSDIQ LYHSETLELM LRRWSKLEKD FKTKNGRYDI
SKIPDIYDCI KYDVQHNGSL KLENTMELYSKALADIVI PQEYGITKAE KLEIAKGYCT
PLVRKIRSDL QRTQDDDTVN KLHPVYSRGV LSPERHVRTR LYFTSESHVH SLLSILRYGA
LCNESKDEQW KRAMDYLNVV NELNYMTQIV IMLYEDPNKD LSSEERFHVE LHFSPGAKGC
EEDKNLPSGY GYRPASRENE GRRPFKIDND DEPHTSKRDE VDRAVILFKP MVSEPIHIHR
KSPLRSRKT ATNDEESPLS VSSPEGTGTW LHYTSGVGTG RRRRRSGEQI TSSPVSPKSL
AFTSSIFGSW QQVSEENANY LRTPRTLVEQ KQNPTVGSHC AGLFSTSVLG GSSSAPNLQD
YARTHRKHLT SSGCIDDATR GSAVKRFSIS FARHPTNGFE LYSMVPSICP LETLHNALS
KQVDEFLASI ASPSSDVPRK TAEISSTALR SSPIMRKKVS LNTYTPAKIL PTPPATLKST
KASSKPATSG PSSAVVPNTS SRKKNITSKT ETHEHKKNTG KKK **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:

HISPPD1 (PPIP5K2)

Alternative Name:

PPIP5K2 ([PPIP5K2 Products](#))

Target Details

Background: Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 2 (EC 2.7.4.24) (Diphosphoinositol pentakisphosphate kinase 2) (Histidine acid phosphatase domain-containing protein 1) (InsP6 and PP-IP5 kinase 2) (VIP1 homolog 2) (hsVIP2),FUNCTION: Bifunctional inositol kinase that acts in concert with the IP6K kinases IP6K1, IP6K2 and IP6K3 to synthesize the diphosphate group-containing inositol pyrophosphates diphosphoinositol pentakisphosphate, PP-InsP5, and bis-diphosphoinositol tetrakisphosphate, (PP)2-InsP4 (PubMed:17690096, PubMed:17702752, PubMed:21222653, PubMed:29590114). PP-InsP5 and (PP)2-InsP4, also respectively called InsP7 and InsP8, regulate a variety of cellular processes, including apoptosis, vesicle trafficking, cytoskeletal dynamics, exocytosis, insulin signaling and neutrophil activation (PubMed:17690096, PubMed:17702752, PubMed:21222653, PubMed:29590114). Phosphorylates inositol hexakisphosphate (InsP6) at position 1 to produce PP-InsP5 which is in turn phosphorylated by IP6Ks to produce (PP)2-InsP4 (PubMed:17690096, PubMed:17702752). Alternatively, phosphorylates PP-InsP5 at position 1, produced by IP6Ks from InsP6, to produce (PP)2-InsP4 (PubMed:17690096, PubMed:17702752). Required for normal hearing (PubMed:29590114). {ECO:0000269|PubMed:17690096, ECO:0000269|PubMed:17702752, ECO:0000269|PubMed:21222653, ECO:0000269|PubMed:29590114}.

Molecular Weight: 140.4 kDa

UniProt: [O43314](#)

Pathways: [Inositol 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.

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

Handling

Storage Comment: Store at -80°C.

Expiry Date: 12 months