Datasheet for ABIN7556005

# HISPPD2A Protein (AA 1-1433) (His tag)

Go to Product page

## Overview

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| Quantity: | 1 mg |
| Target: | HISPPD2A (PPIP5K1) |
| Protein Characteristics: | AA 1-1433 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This HISPPD2A protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant PPIP5K1 Protein expressed in mammalian cells. |
| Sequence: | MWSLTASEGE STTAHFFLGA GDEGLGTRGI GMRPEESDSE LLEDEEDEVP PEPQIIVGIC AMTKKSKSKP MTQILERLCR FDYLTVVILG EDVILNEPVE NWPSCHCLIS FHSKGFPLDK AVAYSKLRNP FLINDLAMQY YIQDRREVYR ILQEEGIDLP RYAVLNRDPA RPEECNLIEG EDQVEVNGAV FPKPFVEKPV SAEDHNVYIY YPSSAGGGSQ RLFRKIGSRS SVYSPESSVR KTGSYIYEEF MPTDGTDVKV YTVGPDYAHA EARKSPALDG KVERDSEGKE IRYPVMLTAM EKLVARKVCV AFKQTVCGFD LLRANGHSFV CDVNGFSFVK NSMKYYDDCA KILGNTIMRE LAPQFQIPWS IPTEAEDIPI VPTTSGTMME LRCVIAIIRH GDRTPKQKMK MEVKHPRFFA LFEKHGGYKT GKLKLKRPEQ LQEVLDITRL LLAELEKEPG GEIEEKTGKL EQLKSVLEMY GHFSGINRKV QLTYYPHGVK ASNEGQDPQR ETLAPSLLLV LKWGGELTPA GRVQAEELGR AFRCMYPGGQ GDYAGFPGCG LLRLHSTFRH DLKIYASDEG RVQMTAAAFA KGLLALEGEL TPILVQMVKS ANMNGLLDSD GDSLSSCQHR VKARLHHILQ QDAPFGPEDY DQLAPTRSTS LLNSMTIIQN PVKVCDQVFA LIENLTHQIR ERMQDPRSVD LQLYHSETLE LMLQRWSKLE |

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| | RDFRQKSGRY DISKIPDIYD CVKYDVQHNG SLGLQGTAEL LRLSKALADV VIPQEYGISR EEKLEIAVGF CLPLLRKILL DLQRTHEDES VNKLHPLCYL RYSRGVLSPG RHVRTRLYFT SESHVHSLLS VFRYGGLLDE TQDAQWQRAL DYLSAISELN YMTQIVIMLY EDNTQDPLSE ERFHVELHFS PGVKGVEEEG SAPAGCGFRP ASSENEEMKT NQGSMENLCP GKASDEPDRA LQTSPQPPEG PGLPRRSPLI RNRKAGSMEV LSETSSSRPG GYRLFSSSRP PTEMKQSGLG SQCTGLFSTT VLGGSSSAPN LQDYARSHGK KLPPASLKHR DELLFVPAVK RFSVSFAKHP TNGFEGCSMV PTIYPLETLH NALSLRQVSE FLSRVCQRHT DAQAQASAAL FDSMHSSQAS DNPFSPPRTL HSPPLQLQQR SEKPPWYSSG PSSTVSSAGP SSPTTVDGNS QFGFSDQPSL NSHVAEEHQG LGLLQETPGS GAQELSIEGE QELFEPNQSP QVPPMETSQP YEEVSQPCQE VPDISQPCQD ISEALSQPCQ KVPDISQQCQ ENHDNGNHTC QEVPHISQPC QKSSQLCQKV SEEVCQLCLE NSEEVSQPCQ GVSVEVGKLV HKFHVGVGSL VQETLVEVGS PAEEIPEEVI QPYQEFSVEV GRLAQETSAI NLLSQGIPEI DKPSQEFPEE IDLQAQEVPE EIN **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.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | HISPPD2A (PPIP5K1) |
| Alternative Name: | PPIP5K1 (PPIP5K1 Products) |
| Background: | Inositol hexakisphosphate and diphosphoinositol-pentakisphosphate kinase 1 (EC 2.7.4.24) (Diphosphoinositol pentakisphosphate kinase 1) (Histidine acid phosphatase domain-containing protein 2A) (IP6 kinase) (Inositol pyrophosphate synthase 1) (InsP6 and PP-IP5 kinase 1) (VIP1 homolog) (hsVIP1),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. 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. Phosphorylates inositol hexakisphosphate (InsP6) at position 1 to produce PP-InsP5 which is in turn phosphorylated by IP6Ks to produce (PP)2-InsP4. Alternatively, phosphorylates PP-InsP5 at position 1, produced by IP6Ks from InsP6, to produce (PP)2-InsP4. Activated when cells are exposed to hyperosmotic stress. {ECO:0000269\|PubMed:17690096, ECO:0000269\|PubMed:17702752}. |
| Molecular Weight: | 159.5 kDa |
| UniProt: | Q6PFW1 |
| Pathways: | Inositol Metabolic Process |

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| 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. |

## Handling

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| Expiry Date: | 12 months |