

Datasheet for ABIN3096323 HISPPD2A Protein (AA 1-1433) (Strep Tag)



Overview

Quantity:	250 µg
Target:	HISPPD2A (PPIP5K1)
Protein Characteristics:	AA 1-1433
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HISPPD2A protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3096323 | 02/26/2025 | Copyright antibodies-online. All rights reserved. LLNSMTIIQN PVKVCDQVFA LIENLTHQIR ERMQDPRSVD LQLYHSETLE LMLQRWSKLE 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

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 posttranslational 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

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN3096323 | 02/26/2025 | Copyright antibodies-online. All rights reserved. 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!

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:	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,
	EC0:0000269 PubMed:17702752}.
Molecular Weight:	159.5 kDa

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Target Details	
UniProt:	Q6PFW1
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.
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. 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

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