Datasheet for ABIN7550812

PPAPDC2 Protein (AA 1-295) (His tag)

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Overview

Quantity:	1 mg
Target:	PPAPDC2
Protein Characteristics:	AA 1-295
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPAPDC2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PLPP6 Protein expressed in mammalian cells.
Sequence:	MPSPRRSMEG RPLGVSASSS SSSPGSPAHG GGGGGSRFEF QSLLSSRATA VDPTCARLRA SESPVHRRGS FPLAAAGPSQ SPAPPLPEED RMDLNPSFLG IALRSLLAID LWLSKKLGVC AGESSSWGSV RPLMKLLEIS GHGIPWLLGT LYCLCRSDSW AGREVLMNLL FALLLDLLLV ALIKGLVRRR RPAHNQMDMF VTLSVDKYSF PSGHATRAAL MSRFILNHLV LAIPLRVLVV LWAFVLGLSR VMLGRHNVTD VAFGFFLGYM QYSIVDYCWL SPHNAPVLFL LWSQR **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:

Product Details

- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	PPAPDC2
Alternative Name:	PLPP6 (PPAPDC2 Products)
Background:	Polyisoprenoid diphosphate/phosphate phosphohydrolase PLPP6 (EC 3.1.3.-) (EC 3.6.1.-) (EC 3.6.1.68) (Lipid phosphatase-related protein-B) (LPRP-B) (PA-PSP) (Phosphatidic acid phosphatase type 2 domain-containing protein 2) (PPAP2 domain-containing protein 2) (Phospholipid phosphatase 6) (Presqualene diphosphate phosphatase) (Type 1 polyisoprenoid diphosphate phosphatase),FUNCTION: Magnesium-independent polyisoprenoid diphosphatase that catalyzes the sequential dephosphorylation of presqualene, farnesyl, geranyl and geranylgeranyl diphosphates (PubMed:16464866, PubMed:19220020, PubMed:20110354). Functions in the innate immune response through the dephosphorylation of presqualene diphosphate which acts as a potent inhibitor of the signaling pathways contributing to polymorphonuclear neutrophils activation (PubMed:16464866, PubMed:23568778). May regulate the biosynthesis of cholesterol and related sterols by dephosphorylating presqualene and farnesyl diphosphate, two key intermediates in this biosynthetic pathway (PubMed:20110354). May also play a role in protein prenylation by acting on farnesyl diphosphate and its derivative geranylgeranyl diphosphate, two precursors for the addition of

Target Details

	isoprenoid anchors to membrane proteins (PubMed:20110354). Has a lower activity towards phosphatidic acid (PA), but through phosphatidic acid dephosphorylation may participate in the biosynthesis of phospholipids and triacylglycerols (PubMed:18930839). May also act on ceramide-1-P, lysophosphatidic acid (LPA) and sphing-4-enine 1-phosphate/sphingosine-1-phosphate (PubMed:18930839, PubMed:20110354). {ECO:0000269|PubMed:16464866, ECO:0000269|PubMed:18930839, ECO:0000269|PubMed:19220020, ECO:0000269|PubMed:20110354, ECO:0000269|PubMed:23568778}.
Molecular Weight:	32.2 kDa
UniProt:	Q8IY26

Application Details

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

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