

Datasheet for ABIN7550914
PPP6C Protein (AA 1-305) (His tag)



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Overview

Quantity:	1 mg
Target:	PPP6C
Protein Characteristics:	AA 1-305
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPP6C protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant PPP6C Protein expressed in mammalian cells.
Sequence:	MAPLDLDKYV EIARLCKYLP ENDLKRLCDY VCDLLLEESN VQPVSTPVTV CGDIHGQFYD LCELFRITGGQ VPDTNYIFMG DFVDRGYYSL ETFTYLLALK AKWPDRITLL RGNHESRQIT QVYGFYDECQ TKYGNANAWR YCTKVFDMLT VAALIDEQIL CVHGGLSPDI KTLDQIRTIE RNQEIPHKGA FCDLVWSDPE DVDTWAISPR GAGWLFQAKV TNEFVHINNL KLICRAHQLV HEGYKFMFDE KLVTVWSAPN YCYRCGNIAS IMVFKDVNTR EPKLFRAVPD SERVIPPRTT TPYFL 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:	PPP6C
Alternative Name:	PPP6C (PPP6C Products)
Background:	Serine/threonine-protein phosphatase 6 catalytic subunit (PP6C) (EC 3.1.3.16) [Cleaved into: Serine/threonine-protein phosphatase 6 catalytic subunit, N-terminally processed],FUNCTION: Catalytic subunit of protein phosphatase 6 (PP6) (PubMed:17079228, PubMed:29053956, PubMed:32474700). PP6 is a component of a signaling pathway regulating cell cycle progression in response to IL2 receptor stimulation (PubMed:10227379). N-terminal domain restricts G1 to S phase progression in cancer cells, in part through control of cyclin D1 (PubMed:17568194). During mitosis, regulates spindle positioning (PubMed:27335426). Down-regulates MAP3K7 kinase activation of the IL1 signaling pathway by dephosphorylation of MAP3K7 (PubMed:17079228). Participates also in the innate immune defense against viruses by desphosphorylating RIGI, an essential step that triggers RIGI-mediated signaling activation (PubMed:29053956). Also regulates innate immunity by acting as a negative regulator of the cGAS-STING pathway: mediates dephosphorylation and inactivation of CGAS and STING1 (PubMed:32753499, PubMed:32474700). CGAS dephosphorylation at 'Ser-435' impairs its ability to bind GTP, thereby inactivating it (PubMed:32474700).

Target Details

{ECO:0000269|PubMed:10227379, ECO:0000269|PubMed:17079228, ECO:0000269|PubMed:17568194, ECO:0000269|PubMed:27335426, ECO:0000269|PubMed:29053956, ECO:0000269|PubMed:32474700, ECO:0000269|PubMed:32753499}.

Molecular Weight: 35.1 kDa

UniProt: [O00743](#)

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