

Datasheet for ABIN7548502

INPP5K Protein (AA 1-448) (His tag)



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Overview

Quantity:	1 mg
Target:	INPP5K
Protein Characteristics:	AA 1-448
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This INPP5K protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat INPP5K Protein expressed in mammalian cells.
Sequence:	<p>MSSRKLSGPK GRRLSIHVVT WNVASAAPPL DLSDLLQLNN RNLNLDIYVI GLQELNSGII</p> <p>SLLSDAAFND SWSSFLMDVL SPLSFIKVSH VRMQGILLV FAKYQHLPYI QILSTKSTPT</p> <p>GLFGYWGNKG GVNICKLYG YYVSIINCHL PPHISNNYQR LEHFDRILEM QNCEGRDIPN</p> <p>ILDHDLIIWF GDMNFRIEDF GLHFVRESIK NRCYGGLWEK DQLSIKKHD PLLREFQEGR</p> <p>LLFPPTYKFD RNSNDYDTSE KKRKPAWTDR ILWRLKRQPC AGPDTPIPPA SHFSLSLRGY</p> <p>SSHMTYGISD HKPVSGTFDL ELKPLVSAPL IVLMPEDLWT VENDMMVSYS STSDFPSSPW</p> <p>DWIGLYKVGL RDVNDYVSYA WVGDSKVSCS DNLNQVYIDI SNIPTTEDEF LLCYYSNSLR</p> <p>SVVGISRPFQ IPPGSLREDP LGEAQPQI 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.</p>
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, Western Blot
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Grade:	custom-made
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Target Details

Target:	INPP5K
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Alternative Name:	INPP5K (INPP5K Products)
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Background:	Inositol polyphosphate 5-phosphatase K (EC 3.1.3.56) (Phosphatidylinositol-3,4,5-trisphosphate 5-phosphatase) (EC 3.1.3.86) (Phosphatidylinositol-4,5-bisphosphate 5-phosphatase) (EC 3.1.3.36) (Skeletal muscle and kidney-enriched inositol phosphatase),FUNCTION: Inositol 5-phosphatase which acts on inositol 1,4,5-trisphosphate, inositol 1,3,4,5-tetrakisphosphate, phosphatidylinositol 4,5-bisphosphate and phosphatidylinositol 3,4,5-trisphosphate (PubMed:10753883, PubMed:16824732). Has 6-fold higher affinity for phosphatidylinositol 4,5-bisphosphate than for inositol 1,4,5-trisphosphate (PubMed:10753883). Negatively regulates assembly of the actin cytoskeleton. Controls insulin-dependent glucose uptake among inositol 3,4,5-trisphosphate phosphatases, therefore, is the specific regulator for insulin signaling in skeletal muscle (By similarity). {ECO:0000250 UniProtKB:Q8C5L6, ECO:0000269 PubMed:10753883, ECO:0000269 PubMed:16824732, ECO:0000269 PubMed:28190456, ECO:0000269 PubMed:28190459}.
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Molecular Weight:	51.1 kDa
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UniProt:	Q9BT40
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Target Details

Pathways: [Carbohydrate Homeostasis](#), [Regulation of Carbohydrate 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
Storage Comment:	Store at -80°C.
Expiry Date:	12 months