

Product datasheet for PH305243

PIP5K2 alpha (PIP4K2A) (NM_005028) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PIP4K2A MS Standard C13 and N15-labeled recombinant protein (NP_005019)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205243
Predicted MW:	46.2 kDa
Protein Sequence:	>RC205243 protein sequence Red =Cloning site Green =Tags(s)

MATPGNLGSSVLASKTKTKKKHFVAQVKLFASDPLLSVLMWGVNHSINELSHVQIPVMLMPDDFKAYS
 KIKVDNHLFNKENMPSHFKFKEYCPMVFRNLRRERFGIDDQDFQNSLTRSAPLPNDSQARSGARFHTSYDK
 RYIIKTITSEDVAEMHNILKKYHQYIVECHGITLLPQFLGMYRLNVDGVEIYVIVTRNVFSHRLSVYRKY
 DLKGSTVAREASDKEKAKELPTLKDNDFINEGQKIYIDDNNKKVFLEKLKKDVEFLAQLKMDYSLLVGI
 HDVERAEQEEVECEENDGEEGESDGHVPGTPPDSPGNTLNSSPPLAPGEFDPNIDVYGIKCHENSPRK
 EYVFMAIIDILTHYDAKKKAAHAAKTVKHGAGAEISTVNPEQYSKRFLDFIGHILT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_005019</u>
RefSeq Size:	3833
RefSeq ORF:	1218
Synonyms:	PI5P4KA; PIP5K2A; PIP5KII-alpha; PIP5KIIA; PIPK
Locus ID:	5305


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UniProt ID: P48426

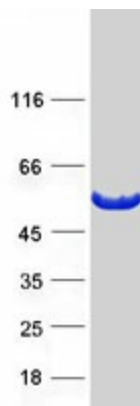
Cytogenetics: 10p12.2

Summary: Phosphatidylinositol-5,4-bisphosphate, the precursor to second messengers of the phosphoinositide signal transduction pathways, is thought to be involved in the regulation of secretion, cell proliferation, differentiation, and motility. The protein encoded by this gene is one of a family of enzymes capable of catalyzing the phosphorylation of phosphatidylinositol-5-phosphate on the fourth hydroxyl of the myo-inositol ring to form phosphatidylinositol-5,4-bisphosphate. The amino acid sequence of this enzyme does not show homology to other kinases, but the recombinant protein does exhibit kinase activity. This gene is a member of the phosphatidylinositol-5-phosphate 4-kinase family. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism, Phosphatidylinositol signaling system, Regulation of actin cytoskeleton

Product images:



Coomassie blue staining of purified PIP4K2A protein (Cat# [TP305243]). The protein was produced from HEK293T cells transfected with PIP4K2A cDNA clone (Cat# [RC205243]) using MegaTran 2.0 (Cat# [TT210002]).