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Product datasheet for PH305323

ITPKA (NM_002220) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ITPKA MS Standard C13 and N15-labeled recombinant protein (NP_002211)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205323
Predicted MW:	51 kDa
Protein Sequence:	>RC205323 protein sequence Red=Cloning site Green=Tags(s) MTLPGGPTGMARPGGARPCSPGLERAPRRSVGELRLLFEARCAAVAAAAAAGEPRARGAKRRGGQVPNGL QRAPPAPVIPQLTVTAEEPDVPPTSPGPPERERDCLPAAGSSHLQQPRRLSTSSVSSTGSSSLLEDSEDD LLSDSESRSRGNVQLEAGEDVGQKNHWQKIRTMVNLPVISPFKKRYAWVQLAGHTGSFKAAGTSGLILKR CSEPERYCLARLMADALRGCVPAFHGVVERDGESYLQLQDLLDGFDGPCVLDCKMGVRTYLEEELTKARE RPKLRKDMYKKMLAVDPEAPTEEEHAQRAVTKPRYMQWREGISSSTTLGFRIEGIKKADGSCSTDFKTTR SREQVLRVFEEFVQGDEEVLRRYLNRLQQIRDTLEVSEFFRRHEVIGSSLLFVHDHCHRAGVWLIDFGKT TPLPDGQILDHRRPWEEGNREDGYLLGLDNLIGILASLAER 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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_002211
RefSeq Size:	1864
RefSeq ORF:	1383
Synonyms:	IP3-3KA; IP3KA

View online »

Locus ID: 3706

UniProt ID: P23677

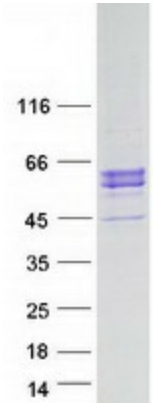
Cytogenetics: 15q15.1

Summary: Regulates inositol phosphate metabolism by phosphorylation of second messenger inositol 1,4,5-trisphosphate to Ins(1,3,4,5)P4. The activity of the inositol 1,4,5-trisphosphate 3-kinase is responsible for regulating the levels of a large number of inositol polyphosphates that are important in cellular signaling. Both calcium/calmodulin and protein phosphorylation mechanisms control its activity. It is also a substrate for the cyclic AMP-dependent protein kinase, calcium/calmodulin- dependent protein kinase II, and protein kinase C in vitro. [provided by RefSeq, Apr 2011]

Protein Families: Druggable Genome

Protein Pathways: Calcium signaling pathway, Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system

Product images:



Coomassie blue staining of purified ITPKA protein (Cat# [TP305323]). The protein was produced from HEK293T cells transfected with ITPKA cDNA clone (Cat# [RC205323]) using MegaTran 2.0 (Cat# [TT210002]).