

Product datasheet for **TP524434**

Inpp5f (NM_178641) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse inositol polyphosphate-5-phosphatase F (Inpp5f), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR224434 protein sequence Red =Cloning site Green =Tags(s)

MELFQAKDHYILQQGERALWCSRRDGGGLQLRPATDLLLAWNPICLGLVEGVIGIKIQLHSDLPWWLILIRQ
KALVGKLPGDHEVCKVTKIAVLSLSEMEPQELELELCKKHHFGINKPEKIIPSPDDSKFLLKFTFTNIKSN
VSAPNKKKVKESKEKEKLERRLLEELLKMFMDSESFYSLTYDLTNSVQRQSTGERDGRPLWQKVDDRFF
WNKYMIQALTEIGTPDVFWDIIPIIQGFVQIEELVNYNESSDDDKSSPETPPQDSTCVDDIHPFLVAL
ISRRSRHRAGMRYKRRGVDKNGNVANYVETEQLIHVHHHTLSFIQTRGSVPVFWVSVQGYRYNPRRLDKS
EKETVDCFAHFEEQLKIYKKQVIVNLVDQAGREKIIGDAYLQVLLFNNPKLTYVSFDFHEHCRGMKFE
NVQTLTDAIHDIIDMKWCWVDQAGVICKQEGIFRNCMDCLDRNTNVQAAIARVMEQQLKKGVMPPPE
QPLPVKCNRTYQIMWANNGDSISRQYAGTAALKGDFTRTGERKLAGVMKDGVNSANRYLSRFKDAYRQA
VIDLMQGVPTEDLYSIFTKEKEHEALHKESQRSHQELISQLLSYMQLLPGDEKFGGGWALVDCDPSL
TDAHRDVEVLLLLSNAAYYVAYYDDEVKVNQYQRLGLEDLERIEIGPEPTLFGKPKFSCMRLHYRCKE
AGGYFHTLRAVPRSPPEEDGKDTLQCIAEMLQITKQAMGLDVPIIEKKLERKSSKPHEDIIGIRSQNQGS
AQQKSFLMSKFSSLNQKVKQTKSNVIGNLRKLGNTKPEMKVNFNLPKLVNLWKSDDSSLETMENPGVM
GNKVQGESDGDISSDNDSYHSDEFNTSKSEEDKQLANSLESVGPIDYILPSCGIIVSAPRLGSRQSAS
SIDVSTHAPSEAAAGPGSELGKGLSPLKKSADSIHTRTGFTKPMQVYQRFVQDAQNKMNLDSEIRS
VAQKSEEGSHKTNRSNEETQSEPMGQTPRPSQLNVSCSVAGPPFLSVEPVHSVLSQKTPSSGSSLEL
EAGLCVTPSSESSSRVSPFAKIRSSMVQVANITQAGLTHGINLAVAKVQKSPAPEAVNEIQNELKN
MFTQCQTRIIQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	127.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_848756
Locus ID:	101490
UniProt ID:	Q8CDA1 , B2RQ14
RefSeq Size:	4740
Cytogenetics:	7 F3
RefSeq ORF:	3399
Synonyms:	5830435P03Rik; AI115354; AW561896; ci-27; hSAC2; mKIAA0966; SAC2
Summary:	Inositol 4-phosphatase which mainly acts on phosphatidylinositol 4-phosphate. May be functionally linked to OCRL, which converts phosphatidylinositol 4,5-bisphosphate to phosphatidylinositol, for a sequential dephosphorylation of phosphatidylinositol 4,5-bisphosphate at the 5 and 4 position of inositol, thus playing an important role in the endocytic recycling (PubMed:25869668, PubMed:25869669). Regulator of TF:TFRC and integrins recycling pathway, is also involved in cell migration mechanisms (By similarity). Modulates AKT/GSK3B pathway by decreasing AKT and GSK3B phosphorylation (PubMed:17322895). Negatively regulates STAT3 signaling pathway through inhibition of STAT3 phosphorylation and translocation to the nucleus (By similarity). Functionally important modulator of cardiac myocyte size and of the cardiac response to stress (PubMed:19875726). May play a role as negative regulator of axon regeneration after central nervous system injuries (PubMed:26203138).[UniProtKB/Swiss-Prot Function]