

Product datasheet for TP314266

PI 3 Kinase p85 alpha (PIK3R1) (NM_181504) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphoinositide-3-kinase, regulatory subunit 1 (alpha) (PIK3R1), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC214266 representing NM_181504 Red=Cloning site Green=Tags(s) <p>MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNNMSLQDAEWYWGDISR EEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGNNKLIKIFHRDGKYGFSDPLTFSSVVELINHYRN ESLAQYNPKLDVKLLYPVSKYQQDQVKEDNIEAVGKKLHEYNTQFQEKSRDYRLEYEYTRTSQEIQMK RTAIEAFNETIKIFEEQCQTQERYSKEYIEKFKREGNEKEIQRIMHNYDKLKSRISEIISRRRLEEDLK KQAAEYREIDKRMNSIKPDLIQLRKRTRDQYLMWLTQKGVQRKLNWLGNTATEDQYSLVEDDEDLPHHD EKTWNVGGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSS LKELVLHYQHTSLVQHNDLNVTLAYPVYAQQRR</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Predicted MW:	53.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
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.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP_852556](#)

Locus ID: 5295

UniProt ID: [P27986](#)

RefSeq Size: 5663

Cytogenetics: 5q13.1

RefSeq ORF: 1362

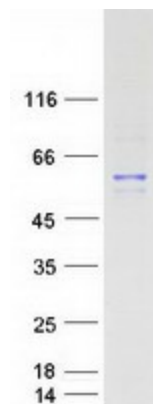
Synonyms: AGM7; GRB1; IMD36; p85; p85-ALPHA

Summary: Phosphatidylinositol 3-kinase phosphorylates the inositol ring of phosphatidylinositol at the 3-prime position. The enzyme comprises a 110 kD catalytic subunit and a regulatory subunit of either 85, 55, or 50 kD. This gene encodes the 85 kD regulatory subunit. Phosphatidylinositol 3-kinase plays an important role in the metabolic actions of insulin, and a mutation in this gene has been associated with insulin resistance. Alternative splicing of this gene results in four transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011]

Protein Families: Druggable Genome

Protein Pathways: Acute myeloid leukemia, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Fc gamma R-mediated phagocytosis, Focal adhesion, Glioma, Insulin signaling pathway, Jak-STAT signaling pathway, Leukocyte transendothelial migration, Melanoma, mTOR signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Phosphatidylinositol signaling system, Progesterone-mediated oocyte maturation, Prostate cancer, Regulation of actin cytoskeleton, Renal cell carcinoma, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus, VEGF signaling pathway

Product images:



Coomassie blue staining of purified PIK3R1 protein (Cat# TP314266). The protein was produced from HEK293T cells transfected with PIK3R1 cDNA clone (Cat# [RC214266]) using MegaTran 2.0 (Cat# [TT210002]).