

Active Recombinant Full Length Human PIK3CG Protein, C-Flag-tagged

Cat. No. PIK3CG-210HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PIK3CG Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Phosphoinositide 3-kinases (PI3Ks) phosphorylate inositol lipids and are involved in the immune response. The protein encoded by this gene is a class I catalytic subunit of PI3K. Like other class I catalytic subunits (p110-alpha p110-beta, and p110-delta), the encoded protein binds a p85 regulatory subunit to form PI3K. This gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. Several transcript variants encoding the same protein have been found for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	Surface Plasmon Resonance (SPR)
Molecular Mass	126.3 kDa
AA Sequence	MELENYKQPVVLREDNCRRRRRMKPRSAASLSSMELIPIEFVLPTSQRKCKSPETA LLHVAGHGNVEQM KAQVWLRALETSAADFYHRLGPHHFLLLYQKKGQWYEIYDK YQVVQTLDCRLRYWKATHRSPGQIHLVQR HPPSEESQAFQRQLTALIGYDVTDSNV

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HDDELEFTRRGLVTPRMAEVASRDPKLYAMHPWVTSKPLPEY LWKKIANNCIFIVIH
 RSTTSQTIKVSPDDTPGAILQSFFTKMAKKKSLMDIPESQSEQDFVLRVCGRDEY LV
 GETPIKNFQWVRHCLKNGEEIHVVLDTPDPALDEVKKEEWPLVDDCTGVTGYHEQ
 LTIHGKDHEVSF TVSLWDCDRKFRVKIRGIDIPVLPNTDLTVFVEANIQHGGQVLCQ
 RRTSPKPFTEEVWLVNWLFEFSIKI KDLPKGALLNLQIYCGKAPALSSKASAESPSES
 KGKVQLLYYVNNLLIDHRFLRRGEYVLHMWQISGK GEDQGSFNADKLT SATNPDK
 ENSMSISILLDNYCHPIALPKHQPTDPEGDRVRAEMPQNLRKQLEAIIA TDPLNPLT
 AEDKELLWHFRYESLKHPKAYPKLFSSVKWGQQEIVAKTYQLLARREVWDQSALDV
 GLTMQL LDCNFSDENVRAIAVQKLESLEDDDLHYLLQLVQAVKFEPYHDSALARFL
 LKRGRLNRKIGHFLFWFLR SEIAQSRHYQQRFVILEAYLRGCGTAMLHDFTQQVQ
 VIEMLQKVTLDIKSLSAEKYDVSSQVISQLKQK LENLQNSQLPESFRVPYDPGLKAG
 ALAIEKCKVMASKKKPLWLEFKCADPTALSNETIGIIFKHGDDLRLQ DMLILQILRIMESI
 WETESLDLCLLPYGCISTGDKIGMIEIVKDATTIAKIQQSTVGNTGAFKDEVLNHW LK
 EKSPTEEFQAAVERFVYSCAGYCVATFVLGIGDRHNDNIMITETGNLFHIDFGHILG
 NYKSFLGINK ERVPFVLTPDFLFVMGTSGKKTSPHFQKFQDICVKAYLALRHHTNLLI
 ILFSMMLMTGMPQLTSKEDIEY
 IRDALTVGKNEEDAKKYFLDQIEVCRDKGWTQVFNWFLHLVLGIKQGEKHSATRTRP
 LEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

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Protein Families	Druggable Genome, ES Cell Differentiation/IPS
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, Inositol phosphate metabolism, 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
Full Length	Full L.
GENE INFORMATION	
Gene Name	PIK3CG phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma [Homo sapiens (human)]
Official Symbol	PIK3CG
Synonyms	PI3K; PIK3; IMD97; PI3CG; PI3Kgamma; p110gamma; p120-PI3K
Gene ID	5294
mRNA Refseq	NM_002649.3
Protein Refseq	NP_002640.2

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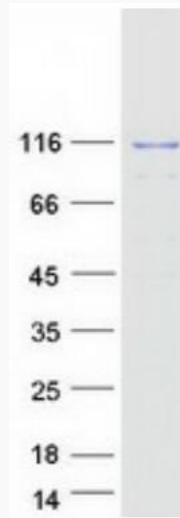
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MIM 601232

UniProt ID P48736



Coomassie blue staining of purified PIK3CG protein.

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