

Product datasheet for TP307790

PI 3 Kinase catalytic subunit gamma (PIK3CG) (NM_002649) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human phosphoinositide-3-kinase, catalytic, gamma polypeptide (PIK3CG), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC207790 representing NM_002649 Red=Cloning site Green=Tags(s)

MELENYKQPVWLREDNCRRRRRMKPRSAASLSSMELIPIEFVLPTSQRKCKSPETALLHVAGHGNVEQM
KAQVWLRALETSVAADFYHRLGPHHFLLYQKKGQWYEIYDKYQVWQTLDCRLRYWKATHRSPGQIHLVQR
HPPSEESQAFQRQLTALIGYDVTDVSNVHDDLEFTRRGLVTPRMAEVASRDPKLYAMHPWVTSKPLPEY
LWKKIANNCIFIVHRSTTSQTIKVPDDTPGAILQSFFTKMAKKKSLMDIPESQSEQDFVLRVCGRDEY
LVGETPIKNFQWVRHCLKNGEEIHVLDTPDPALDEVRKEEWPLVDDCTGVTGYHEQLTIHGKDHESVF
TVSLWDCDRKFRVKIRGIDIPVLPRTDLTVFVEANIQHGGQVLCQRRTSPKPFTEEVLWNVWLEFSIKI
KDLPKGALLNLQIYCGKAPALSSKASAESPSESCKGVQLLYVNNLLIDHRFLLRRGEVVLHMWQISGK
GEDQGSFNADKLT SATNPDKENSMSISILLDNYCHPIALPKHQPTDPEGDRVRAEMP NQLRKQLEAIIA
TDPLNPLTAEDKELLWHFRYESLKHPKAYPKLFSSVKWGQQEIVAKTYQLLARREVWDQSALDVGLTMQL
LDCNFSDENVRAIAVQKLESLEDDDLVHLLQLVQAVKFEPYHDSALARFLLKRGLRNKRIGHFLFWFLR
SEIAQSRHYQQRFAVILEAYLRGCGTAMLHDF TQQVQVIEM LQKVTLDIKLSLAEKYDVSSQVISQLKQK
LENLQNSQLPESFRVPYDPGLKAGALAIKCKVMASKKKPLWLEFKCADPTALSNETIGIIFKHGDDLRLQ
DMLILQILRIMESIWETESLDLCLLPYGCISTGDKIGMIEIVKDATTIAKIQQSTVGNTGAFKDEVLNHW
LKEKSPTEEFQAAVERFVYSCAGYCVATFVLGIGDRHNDNIMITETGNLFHIDFGHILGNYKSLGINK
ERVPFVLTPDFLVMGTSGKKTSPHFQKFQDICVKAYLALRHHTNLLIILFSMMLMTGMPQLTSKEDIEY
IRDALTVGKNEEDAKKYFLDQIEVCRDKGWTQFNWFLHLVLGLIKQGEKHS A

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

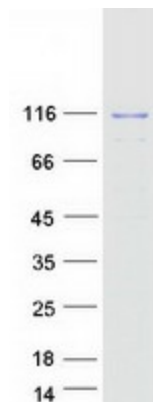
Tag:	C-Myc/DDK
Predicted MW:	126.3 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol



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Bioactivity:	Surface Plasmon Resonance (SPR) (PMID: 26181635)
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.
RefSeq:	NP_002640
Locus ID:	5294
UniProt ID:	P48736 , A0A024R720
RefSeq Size:	5379
Cytogenetics:	7q22.3
RefSeq ORF:	3306
Synonyms:	p110gamma; p120-PI3K; PI3CG; PI3K; PI3Kgamma; PIK3
Summary:	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. [provided by RefSeq, Jun 2015]
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

Product images:



Coomassie blue staining of purified PIK3CG protein (Cat# TP307790). The protein was produced from HEK293T cells transfected with PIK3CG cDNA clone (Cat# [RC207790]) using MegaTran 2.0 (Cat# [TT210002]).