

Recombinant Human PIK3R1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PIK3R1-670H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PIK3R1 MS Standard C13 and N15-labeled recombinant protein (NP_852556) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	53.3 kDa
AA Sequence	MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNN MSLQDAEWYWGDISREEVNEKLRDTADGTFLVRDASTKMHGDYTLTLRKGGNNKLI KIFHRDGGKYGFSDPLTFSSVVELINHYRNESLAQYNPKLDVKLLYPVSKYQQDQVVK EDNIEAVGKKLHEYNTQFQEKSREYDRLYEEYTRTSQEIQMKRTAIEAFNETIKIFEE QCQTQERYSKYIEKFKREGNEKEIQRIMHNYDKLKSRISEIIDSRRRLEEDLKKQAA EYREIDKRMNSIKPDLIQLRKTRDQYLMWLTQKGVQRQKKLNEWLGNENTEDQYSLV

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EDDEDLPHHDEKTNVVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDG
EVKHCVINKTATGYGFAEPYNLYSSLKELVLHYQHTSLVQHNDSLNVTLAYPVYAQQ
RRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [PIK3R1 phosphoinositide-3-kinase regulatory subunit 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [PIK3R1](#)

Synonyms PIK3R1; phosphoinositide-3-kinase, regulatory subunit 1 (alpha); phosphatidylinositol 3-kinase regulatory subunit alpha; GRB1; p85; p85 ALPHA; PI3-kinase subunit p85-alpha; PI3K regulatory subunit alpha; ptdIns-3-kinase regulatory subunit alpha; phosphatidylinositol 3-kinase-associated p-85 alpha; phosphatidylinositol 3-kinase 85 kDa regulatory subunit alpha; phosphatidylinositol 3-kinase, regulatory subunit, polypeptide 1 (p85 alpha); p85-ALPHA;

Gene ID [5295](#)

mRNA Refseq [NM_181504](#)

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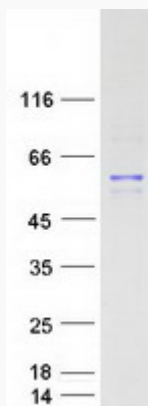
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Protein Refseq [NP_852556](#)

MIM [171833](#)

UniProt ID [P27986](#)

SDS-PAGE



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