

## Product datasheet for PH314266

### PI 3 Kinase p85 alpha (PIK3R1) (NM\_181504) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PIK3R1 MS Standard C13 and N15-labeled recombinant protein (NP_852556)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC214266
Predicted MW:	53.3 kDa
Protein Sequence:	>RC214266 representing NM_181504 Red=Cloning site Green=Tags(s)

MYNTVWNMEDLDLEYAKTDINCGTDLMFYIEMDPPALPPKPPKPTTVANNGMNNMNSLQDAEWYWGDISR  
EEVNEKLRDADGTFLVRDASTKMHGDYTLTLRKGGNNLIKIFHRDGKYGFSPLTFSSVELINHYRN  
ESLAQYNPKLDVKLLYPVSKYQQDQVVKEDNIEAVGKKLHEYNTQFQEKSRDYDRLYEEYTRTSQEIQMK  
RTAIEAFNETIKIFEEQCQTQERYKEYIEKFKREGNEKEIQRIMHNYDKLKSRISEIIDSRRRLEEDLK  
KQAAEYREIDKRMNSIKPDLIQLRKRTRDQYLMWLTQKGVQRKKNLWLGNTEDQYSLVEDDEDLPHHD  
EKTWNVGSSNRNKAENLLRGKRDGTFLVRESSKQGCYACSVVVDGEVKHCVINKTATGYGFAEPYNLYSS  
LKELVLHYQHTSLVQHNSLNVTLAYPVYAQRR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u><a href="#">NP_852556</a></u>
RefSeq Size:	5663
RefSeq ORF:	1362
Synonyms:	AGM7; GRB1; IMD36; p85; p85-ALPHA



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Locus ID: 5295

UniProt ID: [P27986](#)

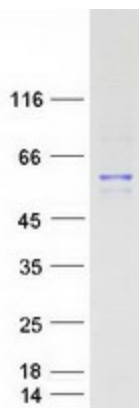
Cytogenetics: 5q13.1

**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]).