

Product datasheet for PH305317

PI 3 Kinase Class 3 (PIK3C3) (NM_002647) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PIK3C3 MS Standard C13 and N15-labeled recombinant protein (NP_002638)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205317
Predicted MW:	101.4 kDa
Protein Sequence:	>RC205317 representing NM_002647 Red=Cloning site Green=Tags(s)

MGEAEKFHYIYSCDLINVLKIGSLEGKREQKSYKAVLEDPMLKFSGLYQETCSLDLYVTCQVFAEGKPL
ALPVRTSYKAFSTRWNWNLKLPVKYPDLPRNAQVALTIWDVYGPVKAVPVGGTTVSLFGKYGMFRQGM
HDLKVPNVADGSEPTKTPGRTSSTLSEDMQSRSLAKLTKAHRQGHMVKVDWLDRLTFREIEMINESEKR
SSNFMYLMVEFRCVKDDKEYGIVVYEKDGDESSPILTSFELVKVPDPQMSMENLVESKHHKLARSLRSG
PSDHDLPNAATRDQLNIIVSYPPTKQLTYEEQDLVWKFRRYLLTNQEKALTKFLKCVNWDLPQEAQALE
LLGKWKPMVDVDSLELLSSHYNPTVRRYAVARLRQADDEDLLMYLLQLVQALKYENFDDIKNGLEPTKK
DSQSSVSENVNSGINSAEIDSSQIITSPLPSVSSPPASKTKEVPDGENLEQDLCTFLISRACKNSTLA
NYLYWYVIVECEDQDTQQRDPKTHEMYLNVMRRFSQLLKGDKSVRVMRSLAAQQTFVDRLVHLMKAVQ
RESGSRKKKNERLQALLGDNEKMNLSDVELIPLPLEPQVKIRGIIPETATLFKSALMPAQLFFKTEDGGK
YPVIFKHGDDLQDQLILQIISLMDKLLRKENLDLKLTPYKVLATSTKHGFMQFIQSVPAEVLDTEGSI
QNFFRKYAPSENGPNGISAEVMDTYVKSCAGYCVITYILGVGDRHLDNLLLTKTGKLFHIDFGYILGRDP
KPLPPPMKLNKEMVEGMGGTQSEYQEFKQCYTAFHLHRRYSNLILNLFSLMVDANIPDIALEPKTVK
KVQDKFRLDLDEEAVHYMQSLIDESVHALFAAVVEQIHKFAQYWRK

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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.



[View online »](#)

RefSeq: [NP_002638](#)

RefSeq Size: 3083

RefSeq ORF: 2661

Synonyms: hVps34; VPS34; Vps34

Locus ID: 5289

UniProt ID: [Q8NEB9](#)

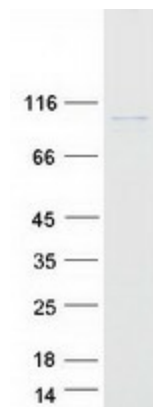
Cytogenetics: 18q12.3

Summary: Catalytic subunit of the PI3K complex that mediates formation of phosphatidylinositol 3-phosphate; different complex forms are believed to play a role in multiple membrane trafficking pathways: PI3KC3-C1 is involved in initiation of autophagosomes and PI3KC3-C2 in maturation of autophagosomes and endocytosis. Involved in regulation of degradative endocytic trafficking and required for the abscission step in cytokinesis, probably in the context of PI3KC3-C2 (PubMed:20643123, PubMed:20208530). Involved in the transport of lysosomal enzyme precursors to lysosomes. Required for transport from early to late endosomes (By similarity).[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Phosphatidylinositol signaling system, Regulation of autophagy

Product images:



Coomassie blue staining of purified PIK3C3 protein (Cat# [TP305317]). The protein was produced from HEK293T cells transfected with PIK3C3 cDNA clone (Cat# [RC205317]) using MegaTran 2.0 (Cat# [TT210002]).