

PIK3C3 recombinant protein

PIK3C3 (Vps34), Active

CATALOG # AAA73053	HOST Sf9 insect cells using baculovirus	APPLICATIONS Kinase Assay
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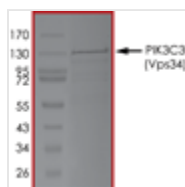
PRODUCT SYNONYMS

PIK3C3; PIK3C3 (Vps34); Active; PIK3C3 recombinant protein

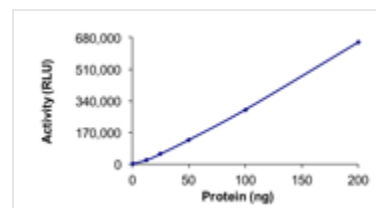
PRODUCT SPECIFICATIONS

Host	Sf9 insect cells using baculovirus
Form/Format	50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Sequence Positions	Full length
Sequence Length	3119
Applicable Applications for PIK3C3 recombinant protein	Kinase Assay
Species	Human
Tag	GST tag
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for PIK3C3 recombinant protein	Description: Recombinant full-length human PIK3C3 (Vps34) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. Scientific Background: PIK3C3 or phosphoinositide-3-kinase is a member of the PI 3-kinase family that mediates the active diversion of proteins from the secretory pathway to vacuoles. PIK3C3 are involved in both receptor-mediated signal transduction and intracellular trafficking. In yeast, the vps34 gene product is a PI 3-kinase. PIK3C3 has a substrate specificity and ion requirements that are distinct from the other known mammalian PI 3-kinases (1). PIK3C3 mediate catalysis on membranes and suppress futile adenosine triphosphatase cycles. PIK3C3 appears to alternate between a closed cytosolic form and an open form on the membrane (2).
Product Categories/Family for PIK3C3 recombinant protein	Enzymes; Active Lipid Kinases

References	1. Volinia, S. et.al: A human phosphatidylinositol 3-kinase complex related to the yeast Vps34p-Vps15p protein sorting system. EMBO J. 14: 3339-3348, 1995. 2. Miller, S. et.al: Shaping development of autophagy inhibitors with the structure of the lipid kinase Vps34. Science 327: 1638-1642, 2010.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	808688272
NCBI GeneID	5289
NCBI Accession #	NM_002647.3
NCBI GenBank Nucleotide #	NM_002647
UniProt Accession #	Q8NEB9; Q15134
Molecular Weight	128 kDa
NCBI Official Full Name	Homo sapiens phosphatidylinositol 3-kinase catalytic subunit type 3 (PIK3C3), transcript variant 1, mRNA
NCBI Official Synonym Full Names	phosphatidylinositol 3-kinase catalytic subunit type 3
NCBI Official Symbol	PIK3C3
NCBI Official Synonym Symbols	VPS34; Vps34; hVps34
NCBI Protein Information	phosphatidylinositol 3-kinase catalytic subunit type 3
UniProt Protein Name	Phosphatidylinositol 3-kinase catalytic subunit type 3
UniProt Gene Name	PIK3C3
UniProt Synonym Gene Names	PI3-kinase type 3; PI3K type 3; PtdIns-3-kinase type 3

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/pik3c3-recombinant-protein-sf9-kinase-assay/73053>