

AKT3 recombinant protein

Recombinant AKT3 protein

CATALOG #
AAA60156

HOST
Baculovirus

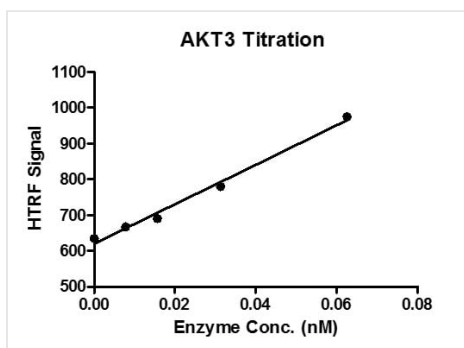
PRODUCT SYNONYMS

AKT3; Recombinant AKT3 protein; AKT Serine/Threonine Kinase 2; RAC-PK-Gamma; STK-2; V-Akt Murine Thymoma Viral Oncogene Homolog 3; AKT3 recombinant protein

PRODUCT SPECIFICATIONS

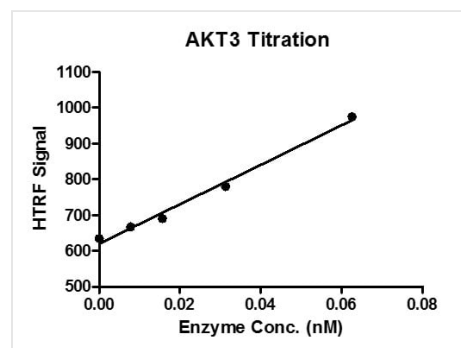
Host	Baculovirus
Form/Format	Recombinant AKT3 protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100, and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag, His-Tag
Notes	Recombinant AKT3 protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Kinase Activity Assay Conditions: 1uM STK S3 substrate was incubated with different concentrations AKT3 protein in a 10ul reaction system containing 1xEnzymatic Buffer, 5mM MgCl ₂ , 1mM DTT, 5nm SEB and 100uM ATP for 1 hour. The 10ul detection reagents containing STK antibody and SA-XL665, each of which was 1:100 diluted with 1x Detection Buffer were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature, and HTRF KinEASE STK assay was used to detect the enzymatic activity.
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	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



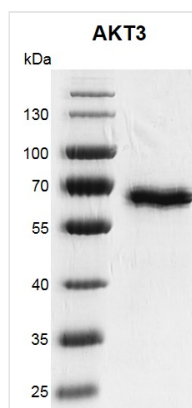
Application Data

HTRF assay for recombinant AKT3 protein activity 1 uM STK S3 substrate was incubated with different concentrations AKT3 protein in a 10 ul reaction system for 1 hour. The 10 ul detection reagents were added and incubated with the reactions for 30 min. All the operations and reactions were performed at room temperature, and HTRF KinEASE STK assay was used to detect the enzymatic activity.



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SDS-PAGE

Recombinant AKT3 protein gel 10% SDS-PAGE Coomassie staining MW: 60.8 kDa Purity: 90%

ADDITIONAL INFORMATION

Related Product Information for AKT3 recombinant protein	Short Description: Recombinant AKT3 protein was expressed in a baculovirus expression system as the full-length protein (accession number NP_005456.1) with an N-terminal 6xHis-tag and DYKDDDDK-Tag. The molecular weight of the protein is 60.8 kDa. Recombinant AKT3 protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: AKT3 (AKT Serine/Threonine Kinase 3), also known as Protein Kinase B Gamma or PRKBG, is one of 3 closely related serine/threonine-protein kinases (AKT3, AKT3 and AKT3) called the AKT kinase, and which regulate many processes including metabolism, proliferation, cell survival, growth and angiogenesis. This is mediated through serine and/or threonine phosphorylation of a range of downstream substrates. Over 100 substrate candidates have been reported so far, but for most of them, no isoform specificity has been reported. AKT3 is the least studied AKT isoform. It plays an important role in brain development and is crucial for the viability of malignant glioma cells. AKT3 isoform may also be the key molecule in up-regulation and down-regulation of MMP13 via IL13. It is required for the coordination of mitochondrial biogenesis with growth factor-induced increases in cellular energy demands. Down-regulation by RNA interference reduces the expression of the phosphorylated form of BAD, resulting in the induction of caspase-dependent apoptosis.
Product Categories/Family for AKT3 recombinant protein	Recombinant Proteins ; Kinase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4885549
NCBI GeneID	10000
NCBI Accession #	NP_005456.1; NP_859029.1
NCBI GenBank Nucleotide #	NM_005465.3
UniProt Accession #	Q9Y243; Q0VAA6; Q5VT11; Q5VT12; Q96QV3; Q9UFP5
Molecular Weight	55,775 Da
NCBI Official Full Name	RAC-gamma serine/threonine-protein kinase isoform 1
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
NCBI Official Symbol	AKT3
NCBI Official Synonym Symbols	PKBG; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma
NCBI Protein Information	RAC-gamma serine/threonine-protein kinase; PKB gamma; RAC-gamma serine/threonine protein kinase
UniProt Protein Name	RAC-gamma serine/threonine-protein kinase

UniProt Gene Name	AKT3
UniProt Synonym Gene Names	PKBG; PKB gamma
UniProt Entry Name	AKT3_HUMAN

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://stage.aaabiotech.com/akt3-recombinant-protein-baculovirus/60156>