

# Recombinant Human AKT3/PKB gamma Kinase

**Catalog No.: RP03448LQ** **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	10000	Q9Y243

### Tags

N-GST

### Synonyms

AKT3; PKBG; PKB gamma; Protein kinase Akt-3; Protein kinase B gamma; RAC-PK-gamma; STK-2; RAC-gamma serine/threonine-protein kinase

## Product Information

Source	Purification
Baculovirus-Insect Cells	≥ 90 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
82.3 kDa	70-85 kDa

### Endotoxin

&lt; 1 EU/μg of the protein by LAL method.

### Formulation

Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 500 mM NaCl, 5% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

### Reconstitution

Please use running water to thaw it quickly.

## Contact

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## Background

RAC-gamma serine/threonine-protein kinase is an enzyme that in humans is encoded by the AKT3 gene. The protein encoded by this gene is a member of the AKT subfamily of serine/threonine protein kinases. AKT kinases are known to be regulators of cell signaling in response to insulin and growth factors. They are involved in a wide variety of biological processes including cell proliferation, differentiation, apoptosis, tumorigenesis, as well as glycogen synthesis and glucose uptake. This kinase has been shown to be stimulated by platelet-derived growth factor (PDGF), insulin, and insulin-like growth factor 1 (IGF1). Alternatively splice transcript variants encoding distinct isoforms have been described. Mice lacking Akt3 have a normal glucose metabolism (no diabetes), have approximately normal body weight, but have a 25% reduction in brain mass.

## Basic Information

### Description

Recombinant Human AKT3/PKB gamma Kinase is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Glu479) of Human AKT3 (Accession #Q9Y243) fused with a N-GST tag.

### Bio-Activity

The activity of AKT3 is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

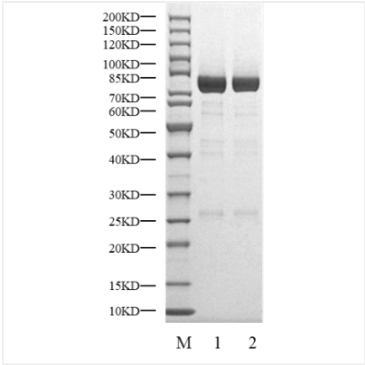
### Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature.

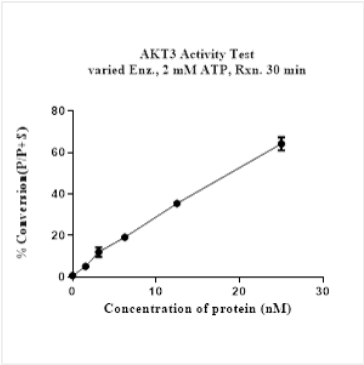
Aliquots below 10 μL are not advisable. Product must not be stored in diluted solutions. Avoid repeated freeze-thaw cycles.

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Validation Data



Recombinant Human AKT3/PKB gamma Kinase was resolved with SDS-PAGE under reducing (Lane 1) and non-reducing (Lane 2) conditions.



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