

## Active Recombinant Human AKT3 Protein

**Cat. No.** AKT3-426H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human AKT3 (NP_005456) full-length recombinant protein expressed in Sf9 cells.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	The protein encoded by this gene is a member of the AKT, also called PKB, serine/threonine protein kinase family. 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. [provided by RefSeq, Jul 2008]
<b>Form</b>	Liquid
<b>Bio-activity</b>	206 nmol phosphate incorporated into Akt substrate peptide per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 uM ATP and total of 0.83 uCi/uL P-32.
<b>Molecular Mass</b>	84 kDa
<b>Purity</b>	>= 90% by SDS-PAGE

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<b>Applications</b>	Functional Study; SDS-PAGE
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.25 mM Dithiothreitol, 0.1 mM EGTA, 0.1 mM EDTA, 25% glycerol, 0.1 mM PMSF)

## GENE INFORMATION

<b>Gene Name</b>	AKT3 v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma) [ Homo sapiens ]
<b>Official Symbol</b>	AKT3
<b>Synonyms</b>	AKT3; v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma); RAC-gamma serine/threonine-protein kinase; PKBG; PRKBG; RAC gamma; PKB gamma; RAC-gamma serine/threonine protein kinase; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma; DKFZp434N0250;
<b>Gene ID</b>	10000
<b>mRNA Refseq</b>	NM_001206729
<b>Protein Refseq</b>	NP_001193658
<b>MIM</b>	611223
<b>UniProt ID</b>	Q9Y243

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