

## Recombinant Human AKT3, His-tagged

**Cat. No.** AKT3-166H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human AKT3 was expressed in E. coli. cells containing 6His tag at N-terminus and is purified by Ni-NTA agarose, 66kDa (47aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<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.
<b>Purity</b>	~50%
<b>amino acid sequence</b>	MHHHHHSSGLVPRGSGMKETAALKFERQHMDSPDLGTDKDDKAMAISDPDSAT MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSGFIGYKEKPQDLDLPLNNFSV AKCQLMKTERPKPNTFIIRCLQWTTVIERTFHVDTPEEREWTEAIQAVADRLQRQE EERMNCSPTSQIDNIGEEEMDASTTHHKRKTMNDFDYLKLLGKGTFGKVLVREKAS GKYYAMKILKKEVIIAKDEVAHTLTESRVLKNTRHPFLTSLKYSFQTKDRLCFVMEYV NGGELFFHLSRERVFSEDRTRFYGAEIVSALDYLHSGKIVYRDLKLENLMLDKDGHK

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ITDFGLCKEGITDAATMKTF CGTPEYLAPEVLEDNDYGRAVDWWGLGVV MYEMMC  
 GRLPFYNQDHEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLGGGPDDAKEI  
 MRHSFFSGVNWQDVYDKKLVPPFKPQVTSETDTRYFDEEFTAQTITITPPEKYDEDG  
 MDCMDNERRPHFPQFSYSASGRE

**Formulation**

15g of recombinant protein in 100µof 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.1% (v/v) 2-mercaptoethanol, 0.1mM EGTA, 1mM benzamidine, and 20% glycerol. Frozen solution.

**Storage and Stability**

Stable for 6 months at -20°C.from date of shipment. For maximum yield, centrifuge the vial after thawing and prior to removing the cap.

## GENE INFORMATION

**Gene Name**

[AKT3 v-akt murine thymoma viral oncogene homolog 3 \(protein kinase B, gamma\) \[ Homo sapiens \]](#)

**Official Symbol**

AKT3

**Synonyms**

AKT3; v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma); PKBG; PRKBG; STK-2; PKB-GAMMA; RAC-gamma; RAC-PK-gamma; DKFZp434N0250; RAC-gamma serine/threonine-protein kinase; PKB gamma; EC 2.7.11.1; Protein kinase Akt-3; Protein kinase B gamma; OTTHUMP00000037911; OTTHUMP00000037912; serine threonine protein kinase, Akt-3; EC 2.7.11

**Gene ID**

[10000](#)

**mRNA Refseq**

[NM\\_001206729](#)

**Protein Refseq**

[NP\\_001193658](#)

**MIM**

[611223](#)

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<b>UniProt ID</b>	Q9Y243
<b>Chromosome Location</b>	1q44
<b>Pathway</b>	Acute myeloid leukemia; Adaptive Immune System; Apoptosis
<b>Function</b>	ATP binding; nucleotide binding; protein binding

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