

Recombinant Human AKT3, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human AKT3 was expressed in E. coli. cells containing 6His tag at N-terminus and is purified by Ni-NTA agarose, 66kDa (47aa).
Species	Human
Source	E.coli
Description	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.
Purity	~50%
amino acid sequence	MHHHHHSSGLVPRGSGMKETAALKFERQHMDSPDLGTDDDDKAMAI SDPDSAT MSDVTIVKEGWVQKRGEYIKNWRPRYFLLKTDGSFIGYKEKPQDVL PYPLNNFSV AKCQLMKTERPKPNTFIIRCLQWTTVIERTFHVDTPEERE EWTEAIQAVADRLQRQE EERMNCSPTSQIDNIGEEEMDASTTHHKRKT MNDFDYLKLLGKGTFGKVILVREKAS GKYYAMKILKKEVIIAKDEVAHTLTESRVLKNTRHPFLTSLKYSFQTKDRLCFVMEYV NGGELFFHLSRERVFSEDRTRFYGAEIVSALDYLHSGKIVYRDLKLENLMLDKDGHK

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ITDFGLCKEGITDAATMKTFCTPEYLAPEVLEDNDYGRAVDWWGLGVVEMYEMMC
 GRLPFYNQDHEKLFELILMEDIKFPRTLSSDAKSLLSGLLIKDPNKRLGGGPDDAKEI
 MRHSFFSGVNWQDVYDKKLVPFQVTSQTDTRYFDEEFTAQTITITPPEKYDEDG
 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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UniProt ID	Q9Y243
Chromosome Location	1q44
Pathway	Acute myeloid leukemia; Adaptive Immune System; Apoptosis
Function	ATP binding; nucleotide binding; protein binding

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