

Recombinant Human AKT3 Protein (S2-E479), GST tagged

Cat. No. AKT3-0085H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human GST-TEV-GG-AKT3(S2-E479 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	S2-E479
Description	AKT3 is one of 3 closely related serine/threonine-protein kinases (AKT1, AKT2 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. 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.
Form	Liquid

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Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles
Storage Buffer	Supplied as sterile 50mM Tris 7.5, 500mM NaCl, 5% glycerol, 5mM DTT, 0.1M Trehalose.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	AKT3 v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma) [Homo sapiens (human)]
Official Symbol	AKT3
Synonyms	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;
Gene ID	10000
mRNA Refseq	NM_001206729

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Protein Refseq	NP_001193658
MIM	611223
UniProt ID	Q9Y243

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