

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

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human GST-TEV-GG-AKT3(S2-E479 end) Protein was expressed in Insect cell.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	S2-E479
<b>Description</b>	<p>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.</p>
<b>Form</b>	Liquid

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<b>Endotoxin</b>	< 0.01 EU per µg of the protein
<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	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
<b>Storage Buffer</b>	Supplied as sterile 50mM Tris 7.5, 500mM NaCl, 5% glycerol, 5mM DTT, 0.1M Trehalose.
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AKT3 v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma) [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	<a href="#">AKT3</a>
<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>	<a href="#">10000</a>
<b>mRNA Refseq</b>	<a href="#">NM_001206729</a>

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**Protein Refseq** NP\_001193658

**MIM** 611223

**UniProt ID** Q9Y243

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