

Recombinant Mouse Phosphorylated Akt1 Protein, His-tagged

Cat. No. Akt1-2840M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Phosphorylated Akt1 Protein (Met458-Tyr474 with phosphoserine at 473 site) fused with a N-His tag.
Species	Mouse
Source	Protein Modification
ProteinLength	Met458-Tyr474 with phosphoserine at 473 site.
Description	This gene encodes the founding member of the Akt serine-threonine protein kinase gene family that also includes Akt2 and Akt3. This kinase is a major downstream effector of the phosphatidylinositol 3-kinase (PI3K) pathway that mediates the effects of various growth factors such as platelet-derived growth factor (PDGF), epidermal growth factor (EGF), insulin and insulin-like growth factor I (IGF-I). It is activated through recruitment to cellular membranes by PI3K lipid products and by phosphorylation by 3-phosphoinositide dependent kinase-1. It then further phosphorylates different downstream proteins in response to various extracellular signals and thus plays a pivotal role in mediating a variety of cellular processes, such as glucose metabolism, glycogen biosynthesis, protein synthesis and turn over, inflammatory response, cell survival (anti-apoptosis) and development. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 2208.4 Da

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Purity	> 95%
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Akt1 thymoma viral proto-oncogene 1 [Mus musculus (house mouse)]
Official Symbol	Akt1
Synonyms	Akt1; thymoma viral proto-oncogene 1; Akt; PKB; Rac; LTR-akt; PKB/Akt; PKBalpha; RAC-alpha serine/threonine-protein kinase; AKT1 kinase; Akt1m protein; PKB alpha; RAC-PK-alpha; protein kinase B-alpha; proto-oncogene c-AKT; related to A and C kinases; tumor rejection antigen peptide pRLib; EC 2.7.11.1
Gene ID	11651
mRNA Refseq	NM_009652
Protein Refseq	NP_033782

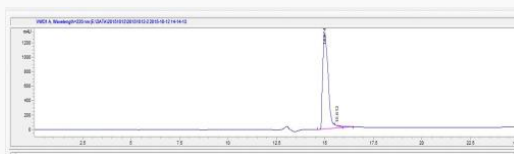
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P31750

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