

Protein Kinase B Alpha Recombinant Protein | AKT1 recombinant protein

Recombinant Human Protein Kinase B Alpha

CATALOG # AAA38026	HOST E Coli
------------------------------	-----------------------

PRODUCT SYNONYMS

Protein Kinase B Alpha; Recombinant Human Protein Kinase B Alpha; AKT1 Human; Protein Kinase B Alpha Human Recombinant; V-Akt Murine Thymoma Viral Oncogene Homolog 1; Proto-Oncogene C-Akt; RAC-PK-Alpha; EC 2.7.11.1; PKB Alpha; CWS6; PKB; RAC; RAC-Alpha Serine/Threonine-Protein Kinase; Rac Protein Kinase Alpha; Protein Kinase B; PKB-ALPHA; RAC-ALPHA; EC 2.7.11; AKT1m; PRKBA; AKT; RAC-alpha serine/threonine-protein kinase; AKT1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 85% as determined by SDS-PAGE.
Form/Format	AKT1 protein solution (0.5mg/ml) containing 20mM Tris-HCl (pH8.0) and 10% glycerol. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMGS MSDVAIVKEG WLHKRGEYIK TWRPRYFLLK NDGTFIGYKE RPQDQVDQREA PLNNFSVAQC QLMKTERPRP NTFIIRCLQW TTVIERTFHV ETPEEREWT TAIQTVADGL KKQEEEEEMDF RSGSPSDNSG AEEMEVS LAK PKHRVTMNEF EYLKLLGKGT FGKVLVKEK ATGRYYAMKI LKKEVIVAKD EVAHTLTENR VLQNSRHPFL TALKYSFQTH DRLCFVMEYA NGGELFFHLS RERVFSEDRA RFYGAEIVSA LDYLHSEKNV VYRDLKLENL MLDKDGHIKI TDFGLCKEGI KDGATMKTFC GTPEYLAPEV LEDNDYGRAV DWWGLGVV MY EMMCGRLPFY NQDHEKLFEL ILMEEIRFPR TLGPEAKSLL SGLLKDPKQ RLGGGSEDAK EIMQHRFFAG IVWQHVEKK LSPPFKPQVT SETDTRYFDE EFTAQMITIT PPDQDDSMC VDSERRPHFP QFSYSASGTA
Sequence Length	480
Preparation and Storage	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for AKT1 recombinant protein	Introduction: Akt1, also known as Akt or else protein kinase B (PKB) is an important molecule in mammalian cellular signaling. In humans, there are three genes in the "Akt family": Akt1, Akt2, and Akt3. Moreover, these enzymes are members of the serine/threonine-specific protein kinase family (EC2.7.11.1). Akt1 is involved in cellular survival pathways, by inhibiting apoptotic processes. Akt1 is also able to induce protein synthesis pathways, and is therefore a key signaling protein in the cellular pathways which lead to skeletal muscle hypertrophy, and general tissue growth. Since it can block apoptosis, and thereby promote cell survival, Akt1 has been implicated as a most important factor in numerous types of cancer. Akt (now also called Akt1) was at first Description: AKT1 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 503 amino acids (1-480 a.a) and having a molecular mass of 58.1kDa. AKT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Product Categories/Family for AKT1 recombinant protein	Protein Kinases

NCBI AND UNIPROT INFORMATION

NCBI GI #	62241013
-----------	----------

NCBI GeneID	207
NCBI Accession #	NP_001014431.1
NCBI GenBank Nucleotide #	NM_001014431.1
UniProt Accession #	P31749 ; Q9BWB6 ; B2RAM5 ; B7Z5R1
Molecular Weight	48,347 Da
NCBI Official Full Name	RAC-alpha serine/threonine-protein kinase
NCBI Official Synonym Full Names	v-akt murine thymoma viral oncogene homolog 1
NCBI Official Symbol	AKT1
NCBI Official Synonym Symbols	AKT; PKB; RAC; CWS6; PRKBA; PKB-ALPHA; RAC-ALPHA
NCBI Protein Information	RAC-alpha serine/threonine-protein kinase
UniProt Protein Name	RAC-alpha serine/threonine-protein kinase
UniProt Gene Name	AKT1
UniProt Synonym Gene Names	PKB; RAC; PKB; PKB alpha
UniProt Entry Name	AKT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/akt1-recombinant-protein-e-coli/38026>